Invitation for Public Comment on the List of Candidates for the Environmental Protection Agency's Clean Air Scientific Advisory Committee (CASAC) Ozone Panel

October 1, 2024

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice (89 FR 56749-56750) on July 10, 2024, that it was inviting nominations of experts to be considered for appointment to the Clean Air Scientific Advisory Committee (CASAC) Ozone Panel. The CASAC Ozone Panel will provide advice through the chartered CASAC on the scientific and technical aspects bases for the agency's review of the Primary National Ambient Air Quality Standards (NAAQS) for ozone. The SAB Staff Office sought nominations of nationally and internationally recognized scientists with demonstrated expertise and research in the field of air pollution related to criteria pollutants, in the following fields, especially with respect to ozone: air quality, atmospheric science and chemistry; exposure assessment; toxicology; controlled clinical exposure; epidemiology; biostatistics; risk assessment; ecology, including of forests and terrestrial systems; and effects on welfare and the environment.

The SAB Staff Office received nominations for the attached 42 candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached List of Candidates under consideration for appointment to the CASAC Ozone Panel. Comments should be submitted to Mr. Aaron Yeow, Designated Federal Officer, at yeow.aaron@epa.gov no later than **October 22, 2024**. E-mail is the preferred mode of receipt. Please be advised that public comments are subject to release under the Freedom of Information Act.

Candidates for the 2024 CASAC Ozone Panel

Adar, Sara

University of Mchigan

Dr. Sara Adar is the Associate Chair and an Associate Professor of Epidemiology at the University of Michigan School of Public Health. She has over 25 years of experience working in environmental health with an emphasis on characterizing exposures to and the health effects of air pollution. Dr. Adar has an extensive publication record in this area and an active research portfolio with funding from the National Institute of Aging (NIA) and the Centers for Disease Control (CDC) to investigate the impacts of the environment on health. In one of her main lines of inquiry, she is a principal investigator in charge of a large global effort to harmonize measures of the environmental exposome across nationally-representative cohort studies on aging from nearly 10 nations in North America, Europe, Asia, and South America. As part of this work, she has prioritized analyses on the health effects of air pollution from different emission sources and health to inform interventions. She also has lines of inquiry centered on understanding issues of environmental justice and quantifying the effectiveness of public health investments in clean school buses to improve children's exposures to pollution and their health. Throughout her research, Dr. Adar has prioritized policy-relevant questions with the goal of generating evidence to support informed decision-making to protect human health. Dr. Adar is currently a member of the Health Effects Institute's Review Committee, the National Institutes of Health's Cardiovascular and Respiratory Diseases study section, and is an associate editor at Environmental Health Perspectives. She previously served as the elected Secretary/Treasurer of the International Society of Environmental Epidemiology, a member of the Technical Oversight Committee for Non-Communicable Disease Studies for the United Nation Foundation's Global Alliance for Clean Cookstoves, a member of the external scientific advisory committee for the EPA-funded Great Lakes Air Center for Integrative Environmental Research (GLACIER) project, and an expert reviewer of the Integrated Science Assessment for the National Ambient Air Quality Standards (NAAQS) for PM (2008, 2015) and Sulfur Oxides (2014). Dr. Adar has training in environmental engineering from the Massachusetts Institute of Technology (B.S., 1996) as well as epidemiology, exposure assessment, and biostatistics from the Johns Hopkins School of Public Health (M.P.H., 1998) and the Harvard Chan School of Public Health (Sc.D., 2005). She also completed post-doctoral fellowship at the University of Washington working on the Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air).

Allen, George

NESCAUM

Mr. George Allen is the Chief Scientist at NESCAUM (Northeast States for Coordinated Air Use Management), an interagency association of the eight Northeastern States. He holds a B.S. in Electrical Engineering from Tufts University (1974). At NESCAUM, Mr. Allen is responsible for monitoring and exposure assessment activities across a range of wide range of air topics, including regional haze, air toxics, on and off-road diesel, wood smoke, and continuous aerosol measurement technologies. He served on the chartered EPA Clean Air Scientific Advisory Committee (CASAC) from 2010 to 2016, has been a member of several CASAC review panels since 2004 including the disbanded 2016 PM panel and the 2022 panels for reconsideration of the PM and Ozone NAAQS. In October 2019, Mr. Allen participated in the Independent PM review Panel, a group of scientists dismissed by EPA in the fall of 2018 that performed a parallel review of the science behind the PM standards. He is the author or coauthor of more than 50 peer-reviewed journal papers on development and evaluation of measurement methods, exposure assessment, and air pollution health effects. Before joining NESCAUM in 2002, Mr. Allen was on the professional staff at the Harvard School of Public Health (HSPH) in Boston for more than 20 years, working on a wide range of EPA and National Institutes of Health- funded air pollution studies. While at HSPH, he developed several new techniques for real-time aerosol measurements. Currently, Mr. Allen is serving as the lead for the NESCAUM Monitoring and Assessment Committee. He also represents states interests to EPA in the National Association of Clean Air Agencies (NACAA) Monitoring Steering Committee, and is a member of the EPA AIRNow Steering Committee. Mr. Allen's current and pending research support pertains to scientific, technical, analytical, and policy support for NESCAUM states' air quality and climate programs, with a focus on air pollution exposure assessment and measurement methods development. These funders include New York State Energy Research and Development Authority (NYSERDA) (characterization of biomass air pollution), NESCAUM member states and Federal Land Managers (CAMNET visibility network), NESCAUM member states and US EPA (support of member states' air quality programs).

Arjomandi, Mehrdad

University of California, San Francisco

Dr. Mehrdad Arjomandi is a Professor of Medicine with appointments in the Divisions of Pulmonary/Critical Care and Occupational/Environmental/Climate Medicine at the University of California San Francisco (UCSF). He is the Director of the San Francisco Veterans Affairs Health Care System (SFVAHCS) Airborne Hazards and Burn Pit Exposure Study Center of Excellence Post-Deployment Cardiopulmonary Evaluation Network. He is also an investigator at the UCSF Center for Tobacco Control Research and Education and the UCSF Helen Diller Family Comprehensive Cancer Center. Dr. Arjomandi obtained his BA degree in molecular biology from the University of California San Diego (1988-91) and his MD degree from Stanford University School of Medicine (1991-96). He then completed a residency in internal medicine at the University of California Los Angeles (1996-99) and a fellowship in pulmonary and critical care at UCSF (2000-03) before joining the faculty at UCSF in 2003. Dr. Arjomandi has been principal investigator and co-investigator on several research grants from both governmental agencies and non-governmental organizations, and has authored and co-authored over 80 scientific articles. Dr. Arjomandi's clinical and research activities are centered on exposure-related lung diseases with focus on how respiratory exposures to pollutants and toxicants contribute to development and progression of chronic lung diseases such as COPD and may further yield systemic effects well beyond lungs.

Bell, Michelle

Yale University School of the Environment

Dr. Michelle Bell is the Mary E. Pinchot Professor of Environmental Health at the Yale University School of the Environment, with secondary appointments at the Yale School of Public Health, Environmental Health Sciences Division and the Yale School of Engineering and Applied Science, Department of Chemical and Environmental Engineering. Her research investigates how human health is affected by environmental conditions, including air pollution and weather. Other research interests include the health impacts of climate change and environmental justice. Much of this work is based in epidemiology, biostatistics, and environmental engineering. The research is designed to be policy-relevant and contribute to well-informed decision-making to better protect human health and benefit society. She is the Director of the Solutions to Energy, AiR, Climate, and Health (SEARCH) Center funded by the Environmental Protection Agency (EPA). She is Principal Investigator (PI) for a National Institutes of Health (NIH) Research Project (R01) grant focusing on environmental justice and a project funded by the Wellcome Trust on air pollution and health under climate change in Brazil. Other funding within the last two years include projects on green playgrounds in New York City funded by the Robert Wood Johnson Foundation, ethane cracker plants funded by the Hightide Foundation, and unconventional oil and gas funded by EPA. Her work is global in scope and she has over 250 peer-reviewed publications. Dr. Bell holds a Ph.D. in Environmental Engineering and M.S.E. in Environmental Management and Economics from Johns Hopkins University, an M.S. in Environmental Engineering and Science from Stanford University, an M.Sc. in Philosophy from University of Edinburgh, and a B.S. in Environmental Engineering Science from the Massachusetts Institute of Technology. She was a member of the EPA Clean Air Scientific Advisory Committee (CASAC) Ozone Review Panel and is a current and former member of several National Academy committees. She received the NIH Outstanding New Environmental Scientist (ONES) Award, Health Effects Institute Rosenblith New Investigator Award, and the Prince Albert II de Monaco/Institut Pasteur Award. She was elected to the National Academy of Medicine and was recognized as a highly cited researcher (top 1% for field) for the last three years.

Boylan, James

Georgia Department of Natural Resources

Dr. James Boylan is currently the Chief of the Air Protection Branch at the Georgia Environmental Protection Division with management responsibilities for 150 full-time employees in six Programs (Ambient Monitoring Program, Planning & Support Program, Mobile and Area Sources Program, Stationary Source Permitting Program, Stationary Source Compliance Program, and Radiation Protection Program). He has expertise in air dispersion modeling with AERMOD and CALPUFF required for PSD permit applications (SO2, NO2, CO, PM2.5, and lead); photochemical grid modeling with CMAQ and CAMx required for ozone, PM2.5, and regional haze State Implementation Plans (SIPs); meteorological modeling with MM5 and WRF; emissions modeling with SMOKE and MOVES; the development of annual state-wide emission inventories for criteria pollutants; and the technical analyses for nonattainment area designation recommendations (ozone, PM2.5, lead, SO2, NO2). He has a B.S. in Chemical Engineering from the University of Notre Dame, a M.S. in Chemical Engineering from Auburn University, and a M.S. and Ph.D. in Environmental Engineering from the Georgia Institute of Technology. Dr. Boylan's Ph.D. research included the development of the first comprehensive three-dimensional Eulerian photochemical grid model (URM-1ATM) that included full ozone chemistry, heterogeneous sulfate chemistry, aerosol thermodynamics, wet deposition and scavenging, and the decoupled direct method (DDM) for ozone and particulate matter. This model was applied as part of the Southern Appalachian Mountain Initiative (SAMI) to simulate 1-hour maximum ozone, W126 ozone, speciated PM2.5, acid deposition (ANC), and regional haze. In 2002, he was awarded the "Outstanding Ph.D. Thesis Award" the for the best Ph.D. dissertation in the Georgia Tech School of Civil and Environmental Engineering. Later, he developed and published the first model performance goals and criteria for PM2.5 which has become the benchmark for most PM2.5 modeling projects both nationally and internationally. Dr. Boylan was one of the first modelers to merge traditional air permit dispersion modeling with photochemical grid models (PGMs) when he applied a PGM to evaluate the single source impacts on ozone and secondary PM2.5 from a coal-fired power plant as part of a PSD permitting review in 2009. Over the past several years he has held leadership positions within many regional and national workgroups. Dr. Boylan has authored or co-authored over 30 peer-reviewed journal articles and conference papers on ozone and PM2.5 formation, and has presented research findings at over 200 national, regional, and local conferences/meetings. In 2001, Dr. Boylan was inducted into the Sigma Xi Scientific Research Honor Society. In 2014, Dr. Boylan was selected to participate in the Clean Air Scientific Advisory Committee (CASAC) review panel for the primary SO2 NAAQS. He was appointed to the Chartered CASAC by the EPA Administrator in 2017 and re-appointed in 2020. He was actively involved in the 2020 review of the PM and ozone NAAQS as well as the recent PM and ozone NAAQS reconsiderations. He was assigned as lead reviewer on multiple chapters and appendixes related to measurements, emissions, and modeling. In December 2020, Dr. Boylan published a paper titled "CASAC Review of the PM and Ozone NAAQS" in EM - The Magazine for Environmental Managers where he compared the traditional CASAC review approach to the newly implemented streamlined approach. In December 2023, Dr. Boylan published a paper titled "The Importance of Risk and Exposure Assessments in Setting the Ozone NAAQS" in EM - The Magazine for Environmental Managers. Finally, Dr. Boylan was one of eight people selected to serve on the EPA SAB Reduced Forms Tools (RFT) review panel in 2020.

Carll, Alex

University of Louisville School of Medicine

Dr. Carll is an Assistant Professor in the Department of Physiology at the University of Louisville School of Medicine. He also holds joint appointments in the University of Louisville Division of Environmental Medicine, Christina Lee Brown Envirome Institute, and Department of Pharmacology and Toxicology. Dr. Carll has established an independent extramurally-funded research program in the field of cardiovascular toxicology that aims to advance knowledge of the adverse cardiophysiologic impacts of inhaled toxicants, as well as other environmental stressors, and their underlying mechanisms. He is currently funded by the National Institutes of Health as Principal Investigator on one R01 and Co-Investigator on another R01. His recent work focuses on the impacts on cardiac physiology of inhaled aerosols from consumer products, especially electronic cigarettes. Dr. Carll has over 19 years of experience in cardiopulmonary toxicology. Dr. Carll attained his BA (2004) from Duke University, and MSPH (2008) and PhD (2012) at UNC Chapel Hill, with his graduate research under Dr. Aimen Farraj and Dr. Daniel Costa at the U.S. Environmental Protection Agency (EPA), where he focused on the role of the autonomic nervous system in the cardiovascular toxicity of inhaled particulate matter and diesel exhaust. After a post-doctoral fellowship at Harvard University under Dr. John Godleski, where he researched the cardiophysiologic impacts of inhaled traffic emissions, Dr. Carll joined the University of Louisville as faculty in 2015. He has authored 22 papers—12 as primary or senior author—and published 1 textbook chapter. Dr. Carll has served as peer reviewer and panelist on the Integrated Scientific Assessment for the U.S. EPA's Ozone NAAQS (2018), peer reviewer of the National Toxicology Program's Monograph on Traffic-Related Air Pollution and Hypertensive Disorders of Pregnancy (2019), and lead discussant and panelist on the U.S. EPA's Ozone NAAQS Review Kickoff (2024). He has been a member the Society of Toxicology since 2006, with additional memberships in the Cardiovascular Toxicology Specialty Section and the Inhalation and Respiratory Specialty Section, both for which he has served as Councilor. He has also been a member of the American Heart Association since 2016 and serves on the Editorial Boards of the American Journal of Physiology – Heart and Circulatory Physiology, Cardiovascular Toxicology, and Toxicological Sciences. Dr. Carll has served as an ad hoc peer reviewer for over 27 scientific journals, and has participated in grant study sections for the National Institutes of Health, American Heart Association, and the Tobacco Related Diseases Research Program (TRDRP) of California, for which he is now a standing study section member.

Chow, Judith C.

Desert Research Institute

Dr. Judith Chow holds the Nazir and Mary Ansari Chair in Science and Entrepreneurialism and is a Research Professor in the Division of Atmospheric Sciences at the Desert Research Institute (DRI), Nevada System of Higher Education in Reno, Nevada. She has led DRI's Environmental Analysis Facility since its inception in 1985. Dr. Chow earned a B.S. degree in Biology from Fu-Jen Catholic University in Taiwan (1974), a M.S. degree in Environmental Health Science (1983) from Harvard University, and a Sc.D. degree in Environmental Science and Physiology (1985) from Harvard University. For nearly 45 years, she has conducted air quality and source characterization studies and performed data analysis and receptor modeling to improve understanding of how air quality affects human health, visibility, historical treasures, ecosystems, and climate. Dr. Chow is currently the principal investigator for: 1) measuring organic and black carbon concentrations for the National Park Service's Interagency Monitoring of Protected Visual Environments (IMPROVE) network; 2) tracking changes in air quality with control measures at the ports of Los Angeles and Long Beach; and 3) investigating the chemical nature and composition of atmospheric brown carbon aerosol. She has been principal investigator or a major collaborator in more than 50 large air quality studies (and many smaller ones) across the United States and in other countries. Dr. Chow prepared and revised sections of EPA's Particulate Matter (PM) Criteria Document (in the late 1990s/early 2000s) pertaining to chemical analysis and source emissions and contributed to EPA guidance documents on network design, continuous particulate monitoring, and particulate matter chemical speciation. Her research has been sponsored by grants and contracts from the federal government (e.g., EPA, Department of Energy and Department of Interior), local, state, and international air quality management authorities, industry, and the National Science Foundation. As past chair and a member of the Air & Waste Management Association's (A&WMA) Critical Review Committee, Dr. Chow has coordinated and evaluated Critical Reviews and Discussions on environmental science and technology topics. She was chair of the Publications Committee for the Journal of the Air & Waste Management Association and serves on Editorial Boards and/or as Associate Editor for several international journals including: the Journal of Air Quality, Atmosphere, & Health, Aerosol and Air Quality Research, Atmospheric Pollution Research, and Particuology. Dr. Chow was a member of the National Research Council's (NRC) committees on Research Priorities for Airborne Particulate Matter (1998&2003) and Energy and Air Pollution Futures in the U.S. and China (2004-2008); she also served on the NRC Board on Environmental Studies and Toxicology (2002&2005). She has been a member of the technical advisory group for the South Coast (California) Air Quality Management District's Multiple Air Toxics Exposure Study (MATES) since 1998. Dr. Chow was a chartered member of EPA's Clean Air Scientific Advisory Committee (CASAC) (2015-2018) and CASAC's Air Monitoring and Methods Subcommittee (AMMS, formerly the Ambient Air Monitoring and Methods Subcommittee) (2004-2019). She is the principal author or co-author of >590 peer-reviewed articles and book chapters and >260 reports. She has been recognized by ISIHighlyCited.com in ecology and environment with more than 27,725 citations and an h-index of 82, and is one of Stanford University's "Top 2% of the Worlds' Most Cited Scientists."

Colomé, Steven

Independent Consultant

Steven D. Colomé, Sc.D. earned a doctorate in Environmental Health Sciences from Harvard University, with an emphasis in air pollution control. He also has a S.B. degree in Biological Sciences (molecular biology) from Stanford University. His research focuses on air pollution exposure, pollution control, epidemiology, and risk assessment. He has served on the faculties of the University of California campuses at Irvine and Los Angeles. At UCLA he was Deputy Director of the Particle Research Center and Supersite, a multi-center research project supported by the National Institutes of Health, USEPA, and the Health Effects Institute. Dr. Colomé has conducted studies on exposure and health effects from ozone, nitrogen dioxide, carbon monoxide, particulate matter, VOCs, sulfur dioxide, sulfate, nitrate, particle-related metals, mutagenic compounds, and formaldehyde. He co-authored a highly respected book: “Health Effects of Fossil Fuel Burning” and is co-author of the “Indoor Air Pollution: An Introduction for Health Professionals” sponsored by USEPA, CPSC, and the American Medical and American Lung Associations. In addition to original research, Dr. Colomé has worked to integrate and summarize the effects of air pollution exposure. He has advised the U.S. Environmental Protection Agency on health criteria documents for sulfur oxides and particulate matter, nitrogen dioxide, and carbon monoxide. He was a consultant to the EPA Science Advisory Board on ozone, served on the Expert Panel for the Health Effects Institute’s reanalysis of particulate-matter epidemiology, and was appointed a member of the National Research Council/National Academy of Sciences Committees on carbon monoxide in cold climates and complex terrain, and on winter fuel oxygenates. Dr. Colomé served for a decade as a member of the Technical Advisory Committee to the Air Pollution Control Officer of California’s South Coast Air Quality Management District. He has served on governmental committees of the National Institutes of Health, NASA and DoD. He has also consulted for foreign governments on environmental health and pollution exposure. He is co-founder of Aromatica, a firm developing and manufacturing emission control and aroma capture equipment for the wine industry. Dr. Colomé currently serves as the medical appointee and Vice Chair on the Santa Barbara County, CA, APCD Hearing Board, sits on the Advisory Committee for the Ventura County, CA, APCD and advises the Port of Hueneme on their decarbonization programs.

Cote, Ila

University of Colorado

Dr. Ila Cote is an Adjunct Professor at the University of Colorado, School of Public Health, Department of Occupational and Environmental Health in Aurora, CO. She is also an Associate at Risk Sciences International, an international consulting firm based in Ottawa, Canada. Dr. Cote holds a PhD in Physiology from the University of New Mexico Medical Center, followed by postdoctoral fellowships in Cell Biology at Duke University Medical Center and Inhalation Toxicology at New York University Medical Center. Dr. Cote's expertise spans risk assessment, inhalation toxicology, and the integration of scientific knowledge to support decision-making. Her research focuses on the mechanisms underlying diseases such as cancer and respiratory conditions caused by chemical exposures. She is particularly interested in leveraging mechanistic information to enhance risk assessments and improve risk assessment methodologies. Her recent research has been supported by grants and contracts from the US federal government, and Health Canada. Prior to her current roles, Dr. Cote spent 27 years at the US Environmental Protection Agency (EPA), where she served in various capacities in the Office of Research and Development, including Senior Science Advisor at the Center for Public Health and Environmental Assessment, Acting Division Director at the Health and Environmental Effects Assessment Division, and Associate Laboratory Director for Air at the National Health and Environmental Research Laboratory. At the EPA, she conducted, led and advised on air pollution research and the development of numerous human health risk assessments, including several EPA's Integrated Science Assessments. Dr. Cote has served on numerous committees including for the National Academy of Sciences, National Institutes of Health and the World Health Organization. She is a member of the American Association for the Advancement of Science, Environmental Mutagenesis and Genomics Society, and the Human Genomics Organization.

Cromar, Kevin

New York University

Dr. Kevin Cromar is the Director of the Health, Environment and Policy Program at the Marron Institute of Urban Management at New York University and an Associate Professor of Environmental Medicine and Population Health at New York University Grossman School of Medicine. Trained as an environmental epidemiologist, Dr. Cromar has published research on the adverse health effects of air pollution using a variety of study designs, including: ecologic, cohort, animal toxicology, risk assessment, and health impact analysis. He has worked on improving exposure assessment approaches using various technologies for use in health research and risk communication purposes. His research program is heavily focused on translational research which has directly contributed to improvements in transportation, energy, and health policy in the US and internationally. Sources of extramural research funding over the last two years incudes NASA, NIEHS, and Wellcome Trust. Dr. Cromar has extensive experience leading and participating in inter-agency projects addressing key air quality and climate topics including projects involving NASA, NIEHS, CDC, US EPA, US DOI, and the US Department of State in addition to various local health and air quality agencies. He has broad international experience through collaborations with UNICEF and UNEP, service on the Global Air Pollution and Health Technical Advisory Group for WHO, serving as the co-leader for the Health Working Group of the WMO Vegetation Fire and Smoke Pollution Warning Advisory and Assessment System, and through capacity building efforts with numerous environmental agencies across Latin America and Africa. Dr. Cromar is also recognized as an expert in environmental health policy having previously worked as a research fellow at the Institute for Policy Integrity at New York University School of Law, through his service on the Environmental Health Policy Committee for the American Thoracic Society, and as a member of the Utah Air Quality Board.

Felton, Henry (Dirk)

New York State Department of Environmental Conservation

Mr. Henry (Dirk) Felton is currently employed by the New York State Department of Environmental Conservation (NYSDEC) as a Research Scientist IV. He has a BA in Physics from Kenyon College, and a MS in Environmental Engineering from Stevens Institute of Technology. He is also a Civil Engineer licensed in the State of New York. Mr. Felton's professional work has been entirely focused on ambient air monitoring. His first independent work involved setting up a monitoring network for criteria, toxic and tracer compounds around the Freshkills Landfill on Staten Island. Since then, he has worked to optimize monitoring technology to operate a rural upwind Photochemical Assessment Monitoring Station (PAMS) site for NARSTO-NE, conducted several experiments to evaluate new automated mass measurement technologies, initiated speciated Mercury and ultrafine monitoring programs and has designed the PM-2.5 Federal Reference Method (FRM), Federal Equivalency Method (FEM) and PM speciation monitoring program in New York. Mr. Felton was also the lead for his Agency's participation in the EPA SuperSite program, PM2.5 Technology Assessment and Characterization Study in New York State (PMTACS). More recently, Mr. Felton designed and implemented several community monitoring studies in New York state including the Peace Bridge and the South Albany monitoring project. Over the last few years, there has been a proliferation of air quality monitoring sensors deployed by community groups in New York and Mr. Felton is the point of contact for the groups when they need assistance with quality assurance and data interpretation challenges. Outside of his employment, Mr. Felton participated on the Board of Science Counselors review of EPA ORD's Clean Air Research program and was a two-term member of the CASAC Ambient Air Monitoring and Methods subcommittee as well as a member of the 2015-2018 CASAC PM Panel. Mr. Felton currently participates on the Northeast States for Coordinated Air Use Management (NESCAUM) Monitoring Assessment Committee and the National Association of Clean Air Agencies (NACAA) Monitoring Steering Committee. He is a Director on a local lake association and recently concluded 7 years of service on his public school board of education.

Frampton, Mark W.

University of Rochester Medical Center

Dr. Mark W. Frampton is Professor Emeritus in Medicine in the Pulmonary and Critical Care division, at the University of Rochester Medical Center. Dr. Frampton holds an M.D. from New York University. His research career has been devoted to understanding the human health effects of exposure to air pollution, using human clinical studies. His work extends beyond pulmonary function effects to include airway inflammation, host defense, and cardiovascular effects. Dr. Frampton's laboratory was the first to conduct human clinical studies of ultrafine particles (smaller than 100 nm) and is one of three centers completing a joint study of the cardiovascular effects of ozone exposure in healthy older subjects, funded by the Health Effects Institute (HEI). Overall, these studies have helped to understand the physiological changes and pathways to adverse effects from air pollutant exposure, and have informed the Environmental Protection Agency (EPA) promulgation of rational ambient air quality standards. Funding for these studies has come from the National Institutes of Health (NIH), the EPA, HEI, and others. Dr. Frampton has served on numerous scientific review panels for the NIH, EPA, and other scientific funding organizations. He has served as Chair of the Environmental and Occupational Health Assembly of the American Thoracic Society, chaired a Task Force on Bioterrorism, and served as the first Chair of the Section on Bioterrorism. Dr. Frampton is a former member of the Science Review Committee for HEI. He participated in an HEI review panel on the health effects of traffic-related air pollution, and chaired an HEI Review Panel on ultrafine particles, which produced a recent HEI Perspectives, "Understanding the Health Effects of Ambient Ultrafine Particles." Dr. Frampton has served as a consultant to the EPA in developing and reviewing Integrated Scientific Assessments for criteria pollutants. He served as a member of the Chartered Clean Air Scientific Advisory Committee (CASAC) from 2018 & 2021, participating in reviews of the National Ambient Air Quality Standards (NAAQS) for particulate matter (PM) and ozone.

Fry, Rebecca

University of North Carolina at Chapel Hill

Rebecca Fry, Ph.D. is the Carol Remmer Angle Distinguished Professor in Children's Environmental Health and Chair in the Department of Environmental Sciences and Engineering at the Gillings School of Global Public Health at the University of North Carolina (UNC) at Chapel Hill. Dr. Fry also holds appointments in the UNC School of Medicine Department of Pediatrics and the Lineberger Comprehensive Cancer Center. Dr. Fry is the founding Director of the Institute for Environmental Health Solutions (IEHS) at UNC-Chapel Hill and is a leading expert in environmental epigenetics and toxicogenomics. A major focus of her laboratory is to identify mechanisms underlying the deleterious impacts of toxic exposures during the prenatal period with a focus on the epigenome and developmental origins of health and disease. Her group has identified epigenetic mechanisms that relate toxic substances to pregnancy complications, children's health, and cancer outcomes. Dr. Fry's laboratory uses transdisciplinary approaches including human population-based research, cell culture-based research and mouse model-based research to refine the understanding of chemical exposure and toxicity. Dr. Fry's lab has published on a host of toxic substances including but not limited to acetaminophen, arsenic, cadmium, manganese, disinfection byproducts, and per- and polyfluoroalkyl substances (PFAS). She has applied her study findings in a risk assessment context. She has published over 270 journal articles, and is the editor and co-author of two books, "Systems Biology in Toxicology and Environmental Health" and "Environmental Epigenetics in Toxicology and Public Health." Dr. Fry is a current editor for the Journal of Environmental Epigenetics. Dr. Fry has served/serves on advisory committees to the Environmental Protection Agency (EPA), the National Academies of Science (NAS) National Research Council for the Integrated Risk Information System (IRIS) review of inorganic arsenic, the Food and Drug Administration (FDA), and the International Agency for Research on Cancer (IARC). She has communicated her work to different audiences, including academic researchers, regulatory agencies, and the public. She is a member of the Society of Toxicology (SOT), former President of the Metals Specialty Section of SOT and current Treasurer elect for SOT. She has a strong track record as Principal Investigator of several large National Institutes of Health (NIH)-funded grants including a children's environmental health cohort as part of the Environmental Influences on Child Health Outcomes (ECHO) program, the UNC Superfund Research Program (P42), and the UNC Environmental Health Sciences training grant (T32). Dr. Fry received her Ph.D. in biology from Tulane University with dissertation research at Yale University and her B.S. in biology from William Smith College (Magna Cum Laude). Dr. Fry's post-doctoral training was carried out at Massachusetts Institute of Technology (MIT) in toxicogenomics and environmental health sciences. She is a member of several societies including the Society for Pediatric Research, the American Chemistry Society, the Society of Toxicology, the Environmental Mutagen Society, Sigma Xi, and Phi Beta Kappa.

Garcia, Erika

University of Southern California Keck School of Medicine

Dr. Erika Garcia is Assistant Professor in the Division of Environmental Health, Department of Population and Public Health Sciences at the Keck School of Medicine at the University of Southern California. She holds a Ph.D. and M.P.H. in Environmental Health Sciences and a B.S. in Conservation and Resource Studies from the University of California, Berkeley. Her research examines the role of ambient environmental exposures in the development of human disease with the aim of providing evidence for potential public health policies and interventions to reduce morbidity and mortality. Her expertise is in applying environmental epidemiology and causal inference approaches—which emulate a conditionally randomized experiment using observational data—in investigations of the human health impacts of environmental exposures. Her recent research focuses on the effects of air pollution on respiratory health outcomes, and in the last several years she has broadened her research to include climate change related hazards. She was a member of the 2018 American Thoracic Society (ATS) Workshop on Outdoor Air Pollution and New-Onset Airway Disease which concluded the weight of the evidence to be consistent with a causal relationship between new onset of childhood asthma and long-term exposure to outdoor, especially traffic-related air pollution. She serves as Principal Investigator for the National Institute of Environmental Health Sciences (NIEHS) funded R01 research project "Electric Vehicle Adoption in California" (EVAC) Study which examines inequities in electric vehicle adoption and in the observed local air quality and respiratory health co-benefits of electric vehicle adoption. Other funding within the last two years includes projects on climate-hazards and health funded by the Southern California Environmental Health Sciences Center Pilot Projects Program which is supported by the NIEHS and on equity in academia funded by the Robert Wood Johnson Foundation. She has served as a reviewer for the Health Effects Institute. She is currently a member of the International Society for Environmental Epidemiology (ISEE), the Society for Epidemiologic Research (SER), and the ATS previously serving as a member of the Environmental Health Policy Committee.

Gilliam, Frank

University of West Florida

Dr. Frank S. Gilliam is a Professor in the Department of Biology at the University of West Florida. He received his Ph.D. from Duke University in plant ecology, with research focusing on the effects of fire on nutrient and herbaceous layer dynamics of a southeastern Coastal Plain pine flatwoods ecosystem. Although he has continued to publish work on the role of fire in old-growth longleaf pine ecosystems, most of his current work examines the effects of excess nitrogen (N) deposition on soil N and herb layer dynamics of Central Appalachian hardwood forests. His work has been funded by the National Science Foundation (NSF), U.S. Department of Agriculture (USDA), and the U.S. Forest Service. Dr. Gilliam's teaching responsibilities include introductory biology, general ecology, and plant ecology, in addition to mentoring undergraduate research, as well as graduate students pursuing the M.S. in biological sciences. He has been the recipient of numerous awards for both research and teaching at Marshall University, including twice receiving the MU Distinguished Artist and Scholars Award (2000 and 2011), the Hedrick Outstanding Faculty Award acknowledging both research and teaching (2002), and was a finalist for Professor of the Year in West Virginia in 1999. He has been asked to serve on review panels for NSF and USDA, and served as Program Chair for the 2010 Annual Meeting of the Ecological Society of America, Pittsburgh, Pennsylvania. He currently is associate editor for several ecological journals, including Journal of Ecology, Journal of Vegetation Science, Journal of Plant Ecology, and Applied Vegetation Science. Dr. Gilliam is the author of 59 peer-reviewed papers, 29 book/proceedings chapters, and three books, the most recent of which was published in March 2014: The herbaceous layer in forests of Eastern North America, 2nd edition (New York, NY: Oxford University Press, Inc).

Gordon, Terry

New York University School of Medicine

Dr. Gordon is a Professor of Environmental Medicine at New York University's School of Medicine. He is the Deputy Director of a National Institute of Environmental Health Sciences (NIEHS) T32 Training Grant. Dr. Gordon received a B.S. in Physiology, an M.S. in Toxicology from the University of Michigan, and a PhD from MIT. His research program has been funded by the National Institutes of Health (NIH), Centers for Disease Control and Prevention (CDC), and Environmental Protection Agency (EPA) for over 3 decades. Dr. Gordon's broad research interest is in inhalation toxicology with a major focus on the identification and understanding of the role of individual susceptibility and genetic factors in the pathogenesis of the adverse pulmonary effects produced by inhaled environmental and occupational agents. Other major research foci include identifying PM components which contribute to the adverse effects of PM and the toxicity of alternative tobacco products. Dr. Gordon teaches graduate level courses and has authored over 160 papers and chapters. He has served as a consultant/author to the Army, NIEHS, NASA, and EPA on a number of issues of pulmonary toxicology and air pollution that are related to the development of various documents and on EPA's Clean Air Science Advisory Committee (CASAC) ad hoc advisory panels. Dr. Gordon has also served on a number of committees for the Society of Toxicology.

Henze, Daven

University of Colorado Boulder

Dr. Daven Henze is a Professor and the S. P. Chip and Lori Johnson Faculty Fellow in the Department of Mechanical Engineering at the University of Colorado Boulder (CU Boulder), and an Adjunct Senior Research Scientist at the Lamont-Doherty Earth Observatory of Columbia University. He holds a Ph.D. in chemical engineering from Caltech. Prior to joining the faculty at CU Boulder he was an Earth Institute Postdoctoral Fellow at Columbia University, where he worked at the National Aeronautics and Space Administration (NASA) Goddard Institute for Space Studies. Dr. Henze’s research focuses on atmospheric chemistry, air quality, air pollution health impacts, long-range pollution transport, and climate change. A large part of his research stems from chemical data assimilation and inverse modeling project, which encompass more specific interests in satellite remote sensing, adjoint sensitivity analysis, and source apportionment. Dr. Henze has received an Environmental Protection Agency (EPA) Early Career award, a NASA New Investigator award, and several university awards for teaching and research. He is a member of the NASA Earth Science Advisory Committee, which is responsible for providing guidance to the NASA Earth Science Division and he was a member of the EPA Clean Air Scientific Advisory Committee (CASAC) NOx/SOx Secondary National Ambient Air Quality Standards (NAAQS) Panel. He is/has been a member of multiple NASA satellite science teams (TES, Glory, CrIS, AQAST, HAQAST), and he is the lead scientist for the GEOS-Chem adjoint model and a member of the GEOS-Chem Steering Committee. His research funding for the past two years has come from NASA, EPA, National Oceanic and Atmospheric Administration (NOAA), National Institutes of Health (NIH), the Welcome Trust, the Stockholm Environment Institute, the International Council on Clean Transportation, and Industrial Economics Inc.

Hough, Merlyn

University of Portland; Lane Regional Air Protection Agency (retired)

Mr. Merlyn Hough is Adjunct Faculty in Environmental Engineering & Science at the University of Portland, specialized in Air Pollution: Engineering, Science & Policy. He served 15 years as executive director of the Lane Regional Air Protection Agency (LRAPA) in Springfield-Eugene, Oregon. Before LRAPA, he worked 31 years as environmental engineer, manager and scientist for the Oregon Department of Environmental Quality, primarily on air quality assessments and development of airshed attainment strategies for criteria air pollutants, including ozone, carbon monoxide and particulate matter. Merlyn is a professional environmental and civil engineer, with degrees from Oregon State University (BS) and the University of Portland (MS). He is a 1998 Fellow of the Air & Waste Management Association and served as A&WMA President in 2012. Merlyn has been a board-certified environmental engineer by the American Academy of Environmental Engineers & Scientists since 1984 and represented A&WMA on the AAEES Board of Trustees in 2013-2020. He served in 2015-2017 on the USDA-EPA Agriculture Air Quality Task Force (AAQTF), a Federal advisory committee chartered under the Federal Advisory Committee Act (FACA). Merlyn also served as co-president of the National Association of Clean Air Agencies (NACAA) in 2015-2016.

Jaspers, Ilona

University of North Carolina at Chapel Hill

After receiving her PhD in Environmental Health Sciences from New York University studying the effects of the air pollutant ozone on respiratory epithelial cells, Ilona Jaspers came to the University of North Carolina (UNC) at Chapel Hill for a postdoctoral training opportunity in the Center for Environmental Medicine, Asthma, and Lung Biology (CEMALB), which works closely with the U.S. Environmental Protection Agency (EPA). She was attracted to this opportunity because of integrated training approaches of working in academia and doing mechanistic research in close collaboration with the EPA, whose goal is to generate science that can inform policy and regulations. She started her faculty position at UNC-Chapel Hill in 2001 and has been continuously funded by NIH, EPA, and DoD since then. She is now a professor in the department of Pediatrics, with joint appointments in Microbiology and Immunology, and Environmental Sciences and Engineering. In addition to this, she has worked for UNC-Chapel Hill in a variety of leadership roles, most recently as the director of the CEMALB, where she is the PI on a cooperative agreement with the EPA entitled "Convergence Science in Environmental Health – COSINE)". The overall objective of the COSINE is to "integrate knowledge, methodologies, and expertise across diverse disciplines thereby establishing innovative frameworks elucidating pollutant-induced adverse health effects". She is also the training program director for the School of Medicine's Curriculum in Toxicology and Environmental Medicine, associate director of scientific development for the Children's Research Institute, and has additional leadership roles in the Center for Environmental Health and Susceptibility as well as the Institute for Environmental Health Solutions at UNC Chapel Hill. Furthermore, she serves on several research training and scientific advisory committees, including the Louisiana Center for Lung Biology and Disease and the University of Rochester Health Sciences Center. For over 25 years, she has studied the respiratory health effects of inhaled toxicants, including ambient air pollutants, military burn pit smoke, wildfire smoke, tobacco products, and cannabidiol vaping products. Dr. Jaspers is particularly interested in the mechanisms by which inhaled toxicants can modify respiratory immune health and the potential adverse health consequences susceptible populations may suffer. Using in vitro, in vivo, human clinical, computational, and epidemiological experimental approaches she has published research identifying markers of toxicity, mechanisms of disease exacerbation, linking biomarkers with disease, and uncovering linkages between specific chemicals/contaminants and biological outcomes. She has published over 170 peer-reviewed papers, of which over 20 are related to the adverse respiratory health effects on ozone. In addition, she is currently studying biomarkers of susceptibility to ozone-induced health effects and exploring novel intervention to reduce ozone toxicity. In addition to research, she is passionate about translating her findings beyond peer-reviewed publications and her work has been featured in podcasts, media outlets, and other outlets reaching the lay public.

Johnson, Natalie

Texas A&M University

Dr. Natalie Johnson, is currently an Associate Professor of Environmental Health and Chair of the Interdisciplinary Faculty of Toxicology at Texas A&M University. Dr. Johnson received her PhD in Toxicology from Texas A&M University in 2010. She then completed a postdoctoral fellowship at Johns Hopkins University from 2010-2012. Dr. Johnson is an expert in the field of inhalation toxicology, with experience in exposure science. Her research activities include the application of in vitro models to evaluate the respiratory hazard of volatile organic compounds (VOCs), development of in vivo models to study reproductive and developmental effects of ultrafine particles (UFPs) and directing mobile monitoring studies in environmental justice neighborhoods and in response to environmental disasters. Sources of recent research funding include the National Institute of Environmental Health Sciences, National Academies of Science, Engineering, and Medicine Gulf Research Program, and the Robert Wood Johnson Foundation. Dr. Johnson's experience on federal panels includes serving on the Systemic Injury by Environmental Exposure Scientific Review Group (ad hoc) and numerous special emphasis panels/scientific review groups for NIH. Dr. Johnson also served as a technical reviewer for the National Toxicology Program. Dr. Johnson is an elected member of the Society of Toxicology Membership Committee and past appointed member of the Society of Toxicology Graduate Education and Career Development Committee.

Kalada, Samir

University of North Carolina School of Medicine

Dr. Samir Kelada is an Associate Professor of Genetics at the University of North Carolina (UNC) School of Medicine. Prior to joining the faculty at UNC in 2012, Dr. Kelada completed post-doctoral training at the National Human Genome Research Institute (NHGRI/NIH) in Bethesda, MD, where he developed skills in genetic and genomic analyses of pulmonary phenotypes in mouse model systems. He received his PhD in Environmental Health/Toxicology in 2006 from the University of Washington School of Public Health in Seattle, and before that an MPH in Environmental Health from the University of Michigan School of Public Health in 2000. Dr. Kelada's research program utilizes genetic and genomic approaches to identify mechanisms by which ozone causes adverse respiratory health effects. The genetic analyses are focused on the identification of gene-environment interactions that underlie variation in response to ozone exposure. His lab employs in vivo and in vitro model systems that enable unbiased, genome-wide searches for genetic variants that influence ozone response, a task that is not easily accomplished in human epidemiologic or clinical studies. Recent work from the Kelada Lab has pinpointed locations in the mouse genome that harbor susceptibility loci for response to acute and repeated ozone exposures. In parallel, Dr. Kelada's lab performs genomic and epigenomic profiling of cellular populations in the lung to identify genes that are affected by ozone exposure, providing insight into how ozone alters the phenotype of these cells. Dr. Kelada's research is funded by NIH/NIEHS. His service includes roles as an Associate Editor for the journal Toxicological Sciences and ad hoc membership on the NIH Center for Scientific Review's Environmental Determinants of Disease Study Section. Lastly, Dr. Kelada is member of the Society of Toxicology, American Thoracic Society, the International Mammalian Genome Society, and the Genetics Society of America.

Karr, Catherine J.

University of Washington

Dr. Catherine Karr is a Professor at the University of Washington (UW) with a joint appointment in the Department of Pediatrics and the Department of Environmental & Occupational Health Sciences. She is also Adjunct Professor in the Department of Epidemiology. She has a Master's degree in Environmental Health/Toxicology and PhD in Epidemiology from the University of Washington. She is also an MD (UW Medical School) and Board Certified Pediatrician (Residency, UW-Seattle Children's Hospital). Dr. Karr is a recognized pediatric environmental health and medicine leader. She received the Presidential Early Career Award for Scientists and Engineers (PECASE) Awardee in 2017 and was profiled the Lancet in 2018 for her accomplishments. Her specialty areas of interest include indoor and outdoor air pollution including wildfire smoke, community engaged research practice, pediatric respiratory disease and working with underserved communities including children in low- and middle-income countries. She served on the American Academy of Pediatrics Council of Environmental Health Executive Committee, 2005-2011. She is co-lead author on the 2021 American Academy of Pediatrics policy statement on air pollution. She has been Director of the CDC/EPA sponsored Northwest Pediatric Environmental Health Specialty Unit since 2004, NIEHS P30 Center Clinical & Translational Science Unit Lead since 2015. She served as DSMB Chair of the Gates Foundation/NIH supported multi-nation global cooking fuel intervention trial (HAPIN Trial). Dr. Karr served on the EPA Chartered SAB from 2012 -2019, was an EPA Star grantee (2016-2020), and a member of the 2022-2023 EPA Clean Air Scientific Advisory Committee (CASAC) Ozone Review Panel. In addition to her largely NIH supported research program, she maintains a regular pediatric primary care practice at UW Medicine Roosevelt Primary Care Center and sees specialty environmental medicine consult patients in this setting.

Kioumourtzoglou, Marianthi-Anna

Columbia University Mailman School of Public Health

Dr. Marianthi-Anna Kioumourtzoglou is an environmental engineer and epidemiologist. She holds her environmental engineering diploma from Democritus University of Thrace, Greece, Master of Science in Public Health (MSPH) from the Environmental Sciences and Engineering Department at the University of North Carolina at Chapel Hill, and Doctor of Science (ScD) in Environmental Health from the Harvard TH Chan School of Public Health, with minors in Biostatistics and Epidemiology, where she also conducted her post-doctoral fellowship. She is currently an Associate Professor at the Department of Environmental Health Sciences at Columbia University's Mailman School of Public Health. Her research focuses on applied statistical issues related to air pollution epidemiology and climate and health, including quantifying and correcting for exposure measurement error, exposure prediction uncertainty propagation, and assessment of high-dimensional and complex exposures in health analyses. Her studies mainly (albeit not exclusively) focus on air pollution and other climate-sensitive exposures and, additionally, on identifying vulnerable sub-populations and characterizing how risks may vary across neighborhood-level and other urban characteristics, as well as in a changing climate. Dr. Kioumourtzoglou is an Associate Professor at the Environmental Health Sciences Department at Columbia University's Mailman School of Public Health. During 2019-2022 she served as the inaugural, elected Co-Chair of the North American Chapter of the International Society for Environmental Epidemiology. She has served on two committees at the National Academies of Science, Engineering, and Medicine. She has been an ad-hoc reviewer for numerous National Institutes of Health (NIHS) study sections and is currently a standing member of the NIH Analytics and Statistics for Population Research Panel B (ASPB) study section. She has co-organized regional and international conferences, as well as numerous symposia in national and international meetings. She has predominantly received funding from the National Institute of Environmental Health Sciences (NIEHS) for her research.

Kleinman, Michael T.

University of California, Irvine

Dr. Michael T. Kleinman is an Inhalation Toxicologist, a Professor in the Department of Environmental and Occupational Health in the College of Health Sciences and the Co-Director of the Air Pollution Health Effects Laboratory at the University of California, Irvine (UCI). He was formerly an environmental scientist with the U.S. Atomic Energy Commission (AEC) and the Director of the Aerosol Exposure and Analytical Laboratory at Rancho Los Amigos Hospital in Downey, CA. His primary research interest is the study of health effects caused by inhalation of environmental air contaminants. He holds a M.S. in Chemistry (Biochemistry) from the Polytechnic Institute of Brooklyn and a Ph.D. in Environmental Health Sciences from New York University. He has published more than 160 articles in peer-reviewed journals dealing with environmental contaminants and their effects on cardiopulmonary and immunological systems. These include reports from studies of controlled human exposures to NO2, and on the uptake and distribution of NO2 after inhalation. He served on two National Research Council committees that examined issues in protecting deployed U.S. Forces from the effects of chemical and biological weapons and on U.S. EPA Clean Air Scientific Advisory Committee (CASAC) Ozone and Photochemical Oxidants panel and the Particulate Matter panel. He is a consultant to USEPA's Board of Scientific Councilors and is a member and past Chair of the Scientific Review Panel for Toxic Substances for the California Environmental Protection Agency. He is the Vice-Chair of the Science Advisory Committee for the Bay Area Air Quality Management District in California and an advisor for the South Coast Air Quality Management District. His current research is funded by NIEHS, NHLBI, NIA, California Tobacco Related Disease Research Program (TRDRP) and the Department of Defense and focuses on the health effects of inhaled pollutants, including ozone, NOx, nanomaterials and ultrafine, fine and coarse ambient particles in humans and laboratory animals. His recent studies demonstrate that inhalation of combustion-generated aerosols can promote airway allergies, induce inflammatory responses in the brain, accelerate the development of cardiovascular disease and that these effects may be associated with organic and elemental carbon components of the ultrafine fraction of the ambient aerosol.

Lerdau, Manuel

University of Virginia

Dr. Manuel Lerdau is Professor of Environmental Sciences and of Biology (by courtesy) at the University of Virginia in Charlottesville. He started at the University of Virginia in 2007, after 12 years at the State University of Stony Brook, where he served as a Professor in the Ecology & Evolution Department and in Atmospheric Sciences. Before then Dr. Lardau did post-doctoral research as an NRC Fellow in Atmospheric Chemistry at NASA Ames on the NASA-sponsored BOREAS Project in northern Canada. He graduated with a PhD in Biology from Stanford in 2004 and a BA with Honors in Biology from Harvard in 1987. His expertise lies in Plant Science, physiology and ecology, and in biosphere-atmosphere interactions. He studies both emission and uptake of gases such as ozone, hydrocarbons, carbon monoxide, and nitrogen oxides by plants and soils. Most of his research centers on plant stress in response to pollution, drought, and temperature and the relationships among these factors. He is particularly interested in atmospheric chemistry, biogeochemical and physiological processes, and biological diversity. Dr. Lerdau has concentrated on processes by which plants affect the atmosphere and by which the atmosphere affects plant function, biodiversity, and ecosystems. His most recent work focuses on ozone, plant volatiles, and human health. Over the last two years Dr. Lerdau has received research support from NASA, NSF, the Nelson Fund (University of Virginia), and the Brown Family Fund (University of Louisville Medical School). He has served on advisory boards for the Ecological Society of America (Publications), the National Ecological Observatory Network (Terrestrial Systems / Biogeochemistry), and the College of Arts & Sciences at the University of Virginia (Chair, Diversity, Equity, and Inclusion).

Lombardozzi, Danica

Colorado State University

Dr. Danica Lombardozzi is an Assistant Professor at Colorado State University in the Ecosystem Science and Sustainability Department and a Project Scientist in the Terrestrial Sciences Section of the Climate and Global Dynamics (CGD) Laboratory at the National Center for Atmospheric Research (NCAR). She received her Ph.D. from Cornell University in Ecology and Evolutionary Biology and her B.A. from Colorado College in Environmental Science. Dr. Lombardozzi is a global change ecologist and her work uses a combination of ecological observations and global-scale models to investigate how terrestrial ecosystems are changing in response to human activities, with a major focus on the detrimental impacts of ground-level ozone on terrestrial ecosystems from leaf to global scales. She is co-founder of the Ozone Bioindicator Garden Network which aims to educate the public about the impacts of air pollution, and leads the citizen science data collection at gardens throughout the network to improve our understanding about the development of visible foliar damage. Dr. Lombardozzi serves as the chair of the Community Land Model Agriculture Working Group, is on the International Evaluation Board for the Norwegian Climate School, and is on the Curriculum Committee for Flux Course. Dr. Lombardozzi is a member of the American Geophysical Union and has received funding from the National Science Foundation and the US Department of Agriculture for her work.

Masemore, Sushma

North Carolina Department of Environmental Quality

Sushma Masemore serves as the Assistant Secretary for Environment for the North Carolina Department of Environmental Quality. She guides DEQ's regulatory divisions through the complex issues facing the state and brings more than 33 years of public and private sector experience to the role. Ms. Masemore oversees the development and implementation of major policy initiatives for programs such as: permitting of discharges to surface waters; issuance of air emissions permits; grant programs for wastewater and drinking water projects; remediation of contaminated soil and groundwater, mining operations, and energy development projects. Ms. Masemore works with the Science Advisory Board to evaluate environmental and health data to facilitate policy and regulatory decision making. As the State Energy Director, Masemore led statewide initiatives related to energy and climate change, including the development of the NC Clean Energy Plan and Risk Assessment and Resilience Plan. Ms. Masemore has extensive experience in air pollution control design, emission testing, analysis and reporting, state and federal air regulations, and air quality modeling, planning, permitting, and inspections. She has managed teams of engineers and scientists through program design, standards development, and implementation phases. Masemore earned a B.S. in Chemical Engineering from University of Maryland Baltimore County. She is a licensed Professional Engineer in North Carolina and a Certified Public Manager. Ms. Masemore has served on a variety of committees and advisory groups related to air quality, climate, and energy. She currently serves as a member of the NC Energy Policy Council that provides recommendations to the NC Governor and the General Assembly.

Neufeld, Howard

Appalachian State University

Dr. Howard Neufeld is currently a full Professor in the Department of Biology at Appalachian State University (ASU), Boone, NC. He received a B.S. in Forestry from Rutgers University in 1975, a M.F. in Forest Sciences from the Yale School of Forestry and Environmental Science in 1977, and a Ph.D. in Botany from the University of Georgia in 1984. In 1985 Dr. Neufeld began an National Research Council (NRC) post-doctoral appointment under Drs. Dave Tingey and Bill Hogsett at the EPA Lab in Corvallis, OR, where he worked on the effects of ozone on root growth of tree seedlings. He is currently the Past-President of both The Association of Southeastern Biologists (ASB) and the Southern Appalachian Botanical Society. Dr. Neufeld's research expertise is in the area of plant physiological ecology, and has included work on desert plants and understory tree adaptations to shade. For the past 18 years, he has been active in air pollution effects research. Dr. Neufeld was the principal investigator of a National Park-U.S. EPA sponsored research project on the effects of ozone on plants native to Great Smoky Mountains National Park. Since 1992, his research group has investigated the impacts of ozone on native wildflowers in the Park. He is the recipient of several awards at ASU for his research, including the Wachovia Award for Achievement in Environmental Research, the Faculty Research Award from the Association of Southeastern Biologists, the local Sigma Xi Chapter Outstanding Researcher Award, and this fall, the 100 Scholars Award for Research from the ASU Office of Research and Graduate Education.

Oakes, Michelle

Tennessee Department of Environment & Conservation

Dr. Michelle Oakes is the Manager of the Regulatory Development and Planning Program within the Division of Air Pollution Control at the Tennessee Department of Environment and Conservation (TDEC). She oversees a team responsible for regulatory planning, rulemaking, and modeling activities to support implementation of the Clean Air Act in Tennessee. Prior to her current role, she served as the Manager of the Division's Quality Assurance program (for ambient monitoring) and as a technical consultant in the Emissions Inventory & Special Projects program. Dr. Oakes received a B.A. in Chemistry from Clemson University and a Ph.D. in Earth and Atmospheric Sciences from Georgia Institute of Technology. She also completed an Oak Ridge Institute of Science and Education (ORISE) postdoctoral fellowship within the National Center of Environmental Assessment at the U.S. Environmental Protection Agency. Dr. Oakes's experience represents a unique blend of academic research and real-world air quality management. She has over 15 years of experience in ambient measurements, modeling, emissions inventory development, exposure assessment, benefits analysis, and low-cost sensors. Her research has focused on understanding the composition, spatiotemporal variations, and health risks of urban and near source (including near-road) air quality using field observations and modeled estimates. Dr. Oakes has also authored sections in the Integrated Science Assessments (ISA) of Sulfur Oxides (2017) and Oxides of Nitrogen (2016) as well as contributed to the ISA of the 2015 Ozone National Ambient Air Quality Standards (NAAQS). At TDEC, Dr. Oakes has relied upon her academic background to inform decision-making on air quality management and environmental initiatives in the Southeastern U.S. In 2016, she evaluated mobile source emission reduction strategies for implementation of the Volkswagen Settlement. In 2018, she managed a cross-agency project with TDEC and the Department of Health demonstrating substantial respiratory health benefits from historic ozone reductions in Tennessee using BenMAP. In 2020, she oversaw a project evaluating low-cost sensors (PM, NOx, O3) resulting in more public awareness of the reliability and applications of these technologies for air quality characterization. Recently, Dr. Oakes has served as the Quality Assurance Officer for the development of Tennessee's first-ever Greenhouse Gas (GHG) inventory funded under EPA's Climate Pollution Reduction Grant. Dr. Oakes is a recent graduate of the TDEC Commissioner's Green Leadership Academy and serves as a mentor for junior environmental professionals in the MentorTN program. She is active in the National Association of Clean Air Agencies (NACAA), the Association of Air Pollution Control Agencies (AAPCA), and the Southeastern Air Pollution Control Agencies (SESARM).

Peel, Jennifer

Colorado State University

Dr. Jennifer L. Peel is a Professor and Section of Head of Epidemiology in the Department of Environmental and Radiological Health Sciences at Colorado State University (CSU). She also holds an appointment as a Professor in the Departments of Epidemiology and Environmental and Occupational Health in the Colorado School of Public Health. She has a B.S. in Biochemistry and Molecular Biology from The Pennsylvania State University, and a Ph.D. and M.P.H. in Epidemiology from the Rollins School of Public Health at Emory University. Dr. Peel's research focuses on the health effects of air pollution, including ambient air pollution in the United States and household air pollution in low- and middle-income countries. She is one of three principal investigators of the Household Air Pollution Intervention Network (HAPIN) trial, a multi-site randomized trial evaluating the impact of a liquefied petroleum gas stove and fuel intervention on exposure to air pollution and health across the lifespan among 3,200 households using biomass for cooking in Guatemala, India, Peru, and Rwanda The trial, funded by the National Institutes of Health (NIH) and the Bill & Melinda Gates Foundation, is evaluating adverse birth outcomes, growth, cognitive development, and severe pneumonia among children, and indicators of chronic disease among older adult women, among other outcomes. The initial trial has been extended through an NIH R56 and NIH R01 for follow-up of the children through age 5. Dr. Peel has also recently served as PI of two additional projects funded by NIH, one evaluating the emissions and acute health effects from emissions from household cookstoves and another evaluating exposures and acute health effects experienced while commuting by bicycle and by car. Dr. Peel is a member of the Review Committee for the Health Effects Institute, has served on several study sections for NIH, is a member of the World Health Organization Technical Advisory Group on Global Air Pollution and Health, a Deputy Editor for the journals Environmental Health Perspectives, and the Associate Chair of the Biomedical Institutional Review Board at CSU. She has additionally served on the recent U.S. Environmental Protection Agency Clean Air Scientific Advisory Panels for ozone and particulate matter.

Peltier, Richard

University of Massachusetts

Dr. Richard Peltier is a Professor in the Department of Environmental Health Sciences at the University of Massachusetts Amherst. He is an expert in air quality assessment and human exposure science, with a focus on chemical speciation of aerosol components, source apportionment, and attribution of specific sources to specific health outcomes. As an empiricist, his laboratory is centered on high quality data analysis, uncertainty in sparse datasets, and reducing exposure misclassification. Dr. Peltier completed a BS in Biology from the University of Massachusetts, a MPH in Environmental Health Science from Columbia University, and a PhD in Atmospheric Chemistry from the Georgia Institute of Technology. He conducted postgraduate training at the Institute of Environmental Medicine at New York University's Langone School of Medicine. A former Rosenblith awardee from the Health Effects Institute, Dr. Peltier has prior or current funding from the NIH, US EPA, the Institute for Advanced Sustainability Studies (Germany), World Resources Institute Ross Center for Sustainable Cities, Worldwide Universities Network, Climate and Health Research Network, and the Commonwealth of Massachusetts Department of Energy Resources. Dr. Peltier is a recipient of a US-UK Fulbright award, served on a recent CASAC Ozone Panel, and is an executive editor of the Journal of Exposure Science and Environmental Epidemiology.

Ponette-González, Alexandra

University of Utah

Dr. Alexandra Ponette-González holds a joint position as Associate Professor of City & Metropolitan Planning and Curator of Urban Ecology (Natural History Museum of Utah) at the University of Utah. She received her Ph.D. from Yale School of Forestry and Environmental Studies (2009) and an M.A. in Geography from the University of Texas at Austin (2002). Dr. Ponette-Gonzalez's research focuses on the atmospheric deposition of nutrients and pollutants to terrestrial ecosystems and the influence of human activities and global change drivers on atmosphere-to-ecosystem fluxes. Her research spans tropical as well as north temperate ecosystems. Some of her research has been at the interface of policy, management and basic science (e.g., Ponette-González et al. 2014, 2015). With support from the National Science Foundation, she is investigating the role of city trees in the black carbon and particulate matter removal from the atmosphere. She is also conducting research on particulate matter and nutrient deposition across diverse U.S. forests types. Dr. Ponette-González is an interdisciplinary scholar who integrates ground-based network data with remote geospatial data to better understand spatial variability in atmosphere-land interactions over small to large scales (e.g., Weathers et al. 2011, Carlson et al. 2014, Griffith et al. 2015, Ponette-González et al. 2016, Ponette-González et al. 2018). She and colleagues recently evaluated the performance of a global 3-D chemical transport model in predicting N deposition to Latin American cities (Ponette-González et al. 2022). She is a recently elected member of the Honors Committee B of the American Association of Geographers (AAG), served on the AAG Committee on the Status of Women in Geography (2015-2018), and is currently an editorial board member for Progress in Physical Geography (2020-present), Land (2019-present), and Frontiers in Water (2021-present). She has served as a panelist and reviewer for multiple National Science Foundation programs and as an ad hoc reviewer for ~20 journals in meteorology & atmospheric sciences, water resources, plant and soil sciences.

Pusede, Sally

University of Virginia

Dr. Sally Pusede is an Associate Professor in the Department of Environmental Sciences at the University of Virginia in Charlottesville, Virginia. She earned her B.F.A in Sculpture from Pratt Institute in Brooklyn, New York, her Ph.D. in Chemistry from the University of California Berkeley in Berkeley, California, and was a NASA Postdoctoral Fellow at NASA Langley Research Center in Hampton, Virginia. Dr. Pusede has expertise in areas of atmospheric chemistry and composition, ozone chemistry and biosphere-atmosphere interactions, nitrogen cycling, and neighborhood-level air pollution variability and inequalities. Her laboratory at the University of Virginia combines field and satellite measurements to answer questions related to these research areas. Her recent work has been funded by the National Science Foundation, National Aeronautics and Space Administration, the U.S. Department of Agriculture, and the Robert Wood Johnson Foundation. Dr. Pusede was recently a coauthor on the 5th National Climate Assessment Air Quality Chapter and panelist for the 2024 Environmental Protection Agency Ozone Integrated Science Assessment workshop.

Rice, Mary B.

Beth Israel Deaconess Medical Center (BIDMC)

Dr. Mary Rice M.D., M.P.H. is a pulmonologist with expertise in the respiratory health effects of air pollution exposure. She is the Director of Research and the Director of the BIDMC Institute of Lung Health in the division of pulmonary and critical care at BIDMC in Boston. She leads the environmental health research program of the ALA Lung Health Cohort, funded by NHLBI, and is the principal investigator of a clinical trial of air purification for patients with COPD, funded by NIEHS. She has a strong fund of knowledge of the NAAQS process, having served on the environmental health policy committee of the American Thoracic Society 2012-2021 (vice chair 2015-2018, chair 2018-2021). She currently serves on the policy committee of the International Society for Environmental Epidemiology (ISEE).

Rosser, Franziska

UPMC/Childrens Hospital of Pittsburgh

Franziska J. Rosser, MD, MPH, ATSF is a pediatric pulmonologist at UPMC Children's Hospital of Pittsburgh and an Assistant Professor of Pediatrics (tenure-track) within the Division of Pulmonary Medicine, University of Pittsburgh School of Medicine. Dr. Rosser received her medical degree from the University of South Alabama College of Medicine, completed her pediatric residency at Greenville Hospital System/University of South Carolina Greenville and her pediatric pulmonology fellowship at UPMC Children’s Hospital of Pittsburgh, and received her Master of Public Health from the University of Pittsburgh School of Public Health. Dr. Rosser is a former University of Pittsburgh Institute for Clinical Research Education Clinical and Translational Science KL2 Scholar, has received funding from the American Thoracic Society (ATS) to conduct the only randomized clinical trial (a pilot study) evaluating the impact of adding the United States (U.S.) Air Quality Index to childhood asthma action plans, and is currently a Principal Investigator of an NHLBI funded K08 evaluating the association of chronic outdoor air pollution on airway “omics” in children with asthma. She has expertise in childhood environmental epidemiology, including outdoor air pollution, and has published on the current U.S. ozone standard as it relates to childhood respiratory health. Her long-term research goal is to develop evidence-based clinical interventions to reduce the harm of outdoor air pollution for children with chronic respiratory disease. She is an active member of the ATS Environmental Health Policy Committee.

Sarnat, Jeremy

Emory University

Dr. Jeremy A. Sarnat is currently an Associate Professor of Environmental Health at the Rollins School of Public Health of Emory University and Co-Director of the Southeastern Center for Air Pollution and Epidemiology (SCAPE), based jointly at Emory University and the Georgia Institute of Technology. He holds an Sc.D. in Environmental Health from the Harvard School of Public Health. Dr. Sarnat's research focuses primarily on characterizing exposures to urban air pollution in various populations, in particular panels of sensitive cohorts such as children, older adults and individuals with cardiorespiratory disease. Much of his work examines how exposure science informs environmental epidemiology; the impact of exposure misclassification and confounding on air pollution epidemiologic findings; and, most recently, the development and application of molecular levels measures of air pollution exposure and response using novel high resolution metabolomics platforms. He has served on numerous academic and research advisory boards and was an ad hoc member of Environmental Protection Agency (EPA) Clean Air Scientific Advisory Committee (CASAC) panels for Nitrogen Oxides, Ozone, and Particulate Matter. Currently, Dr. Sarnat is the Principal Investigator of several exposure and epidemiologic studies investigating exposures to primary traffic pollution.

Sheppard, Elizabeth A. (Lianne)

University of Washington

Dr. Elizabeth A. (Lianne) Sheppard is Rohm and Haas Professor in Public Health Sciences and Professor in the Departments of Environmental and Occupational Health Sciences and Biostatistics at the University of Washington School of Public Health. She holds a B.A. in psychology and a Sc.M. in biostatistics from Johns Hopkins University, and a Ph.D. in biostatistics from University of Washington. Her research interests focus on exposure assessment study design, exposure modeling, and inference about the health effects of environmental and occupational exposures with particular emphasis on statistical methods. She is co-principal investigator of the Adult Changes in Thought Air Pollution Study (ACT-AP) study to determine whether air pollution exposure is associated with degradation of late-life brain health, funded by the National Institute of Environmental Health Sciences (NIEHS) and the National Institute on Aging. She is principal investigator of a study funded by the Health Effects Institute to optimize air pollution exposure assessment for inference about health effects in cohort studies. Dr. Sheppard directs two NIEHS-funded training programs, one for graduate students and postdoctoral scholars emphasizing quantitative training in the environmental health sciences, and the other for undergraduates to promote diversity in the environmental health sciences. She is a fellow of the American Statistical Association and recipient of the International Society for Environmental Epidemiology (ISEE) Research Integrity Award. She has served on the Health Effects Institute's Review Committee, the Environmental Protection Agency (EPA) chartered Clean Air Scientific Advisory Committee (CASAC), and has further advised the EPA through service on several CASAC special panels, Science Advisory Board ad hoc committees, a Federal Insecticide, Rodenticide, and Fungicide Act Scientific Advisory Panel, and a Toxic Substances Control Act Science Advisory Committee on Chemicals Panel.

Thurston, George

New York University Grossman School of Medicine

Dr. George Thurston has a nationally and internationally recognized record of multi-disciplinary academic training and expertise in air quality, epidemiology, and exposure assessment. He is currently a tenured member of the faculty of the departments of Medicine and Population Health at New York University's Grossman School of Medicine, where he directs the graduate program in Human Exposure and Health Effects. Professor Thurston was graduated from Brown University in Environmental Engineering (ScB) and Environmental Studies (AB). He subsequently received his Masters from Harvard University in Environmental Health Sciences, with a specialization in Air Pollution Meteorology, including graduate studies of Meteorology at MIT. He received his doctorate in Environmental Health Sciences from the Harvard School of Public Health, where his research was part of the landmark Harvard Six Cities air pollution study. He presently serves on the USEPA's Board of Scientific Counselors and on the Policy Committee of the International Society for Environmental Epidemiology (ISEE). Dr. Thurston's research has primarily focused on the human health effects of ambient air pollution. This has involved studies of air pollution exposures and their health effects in panels of individual human subjects, such as children with asthma, as well as large national cohorts of adults. His research has included epidemiological high impact studies of ozone air pollution effects on children's lung function and on adult hospital admissions and mortality in the US and abroad. For example, his ozone and health research was cited by the US EPA when setting the 1997 ozone standard. In recent years, his research has been funded by the National Institute of Environmental Sciences, the US Environmental Protection Agency, and the Heinz Endowment. As an active member in multiple scientific and medical societies, Dr. Thurston has led efforts to bring scientists and physicians together to reach consensus on key environmental health issues, including the organization and publishing of the American Thoracic Society (ATS) and European Respiratory Society (ERS) Statement on "What Constitutes an Adverse Effect of Air Pollution.

Turpin, Barbara

University of North Carolina at Chapel Hill

Dr. Barbara Turpin is Department Chair and Professor of Environmental Sciences and Engineering in the Gillings School of Global Public Health at the University of North Carolina (UNC) at Chapel Hill. She is an aerosol scientist that combines laboratory experiments, chemical modeling and field research to improve our understanding of linkages between air pollution emissions and subsequent human exposure. She is best known for research on secondary organic aerosol formation through aqueous (multiphase) chemistry. She conducts research on many aspects of organic aerosol, indoor chemistry, Per- and polyfluoroalkyl substances (PFAS), aerosol transmission of COVID-19, and exposure science. Over the past two years, Professor Turpin's research has been supported by the US National Science Foundation, Alfred P. Sloan Foundation, the North Carolina (NC) General Assembly through the NC Collaboratory, and the National Oceanic and Atmospheric Association. Professor Turpin received a B.S. from the California Institute of Technology (1984) and Ph.D. from OGI at the Oregon Health Sciences University (1990). She conducted postdoctoral research at the University of Minnesota Particle Technology Laboratory (1990-1994) and was a Professor at Rutgers University (1990-2015) before joining the University of North Carolina 6 years ago. She is a Fellow of the American Association for the Advancement of Science, Fellow of the American Geophysical Union, and Fellow of the American Association for Aerosol Research (AAAR). Professor Turpin is currently serving on the National Academies Committee on the Chemistry of Urban Wildfires (2021-present). She served on the Environmental Protection Agency (EPA) Clean Air Scientific Advisory Committee (CASAC) Particulate Matter Review Panel (2016-2018), and subsequently served on the Independent Particulate Matter Review Panel that submitted public comments on PM2.5 standard in 2020. She also served as a Past President (2013), member of the Board of Directors (1997-2000) and Conference Chair (2003) of the American Association for Aerosol Research (AAAR). She served as Associate Editor of Environmental Science and Technology (ES&T) for 7 years (2013-2020), as a member of the International Commission for Atmospheric Chemistry and Global Pollution (2010-2014), and on an Advisory Group for the International Agency for Research on Cancer (IARC) Monographs on Air Pollution (2004). Dr. Turpin is a recipient of Atmospheric Environment's Haagen Smit Prize (2009), AAAR's Sinclair Award (2010) and the American Chemical Society's award for Creative Advances in Environmental Sciences and Technology (2018).

Van Winkle, Laura

University of California, Davis

Dr. Laura Van Winkle is currently a Professor in the School of Veterinary Medicine at UC Davis with a secondary appointment as a researcher in the organized research unit UC Davis Institute of the Environment-Center for Health and the Environment. She received a B.S. in Pharmacology with honors from UC Santa Barbara in 1987 and a Ph.D. from UC Davis in 1995 in Pharmacology and Toxicology. Following her postdoctoral training in respiratory biology and medicine, she joined UC Davis as a faculty member in 1997. Dr. Van Winkle is the co-leader of the Pilot Project Program for UC Davis' Environmental Health Sciences P30 Core Center and also a member of the UC Davis Comprehensive Cancer Center, UC Davis Air Quality Research Center and both the Pharmacology and Toxicology and Integrative Pathobiology Graduate Groups. She has been active in the Society of Toxicology, previously serving as an IRSS Councilor, co-chairing IRSS supported Symposia and Workshops and teaching in a CE course and is currently the President of the Inhalation and Respiratory Specialty Section (IRSS). Dr. Van Winkle has been board certified in General Toxicology (DABT) since 2002 and has served the American Thoracic Society (ATS) as a member of the Environmental Health Policy Committee, EOPH program and planning committees. She has served on local, state, EPA, and NIH review groups and panels and recently concluded a 6-year stint as a standing member of the NIH study section Systemic Injury from Environmental Exposures (SIEE). Her research is in the area of lung toxicology with a special focus on exposures that target the distal conducting airway epithelium of the lung. Dr. Van Winkle is known for her expertise on lung injury and repair as well as her expertise in respiratory toxicology of indoor and outdoor air pollutants, specifically in animal models of human disease. She has co-authored over 100 research publications.

Watson, John

Desert Research Institute

Dr. John G. Watson is a Research Professor in the Division of Atmospheric Sciences at the Desert Research Institute (DRI), Nevada System of Higher Education in Reno, Nevada, where he has been employed for nearly 42 years. He has 45+ years of experience in air quality research with an emphasis on suspended particulate matter (PM) measurement methods, chemical characterization, source apportionment, atmospheric aging, human exposure measurements, and non-health effects on visibility, ecosystems, cultural heritage, and climate. Dr. Watson earned a B.A. in physics at the State University of New York at Brockport (1970), a M.S. in physics from the University of Toledo in 1974, and a Ph.D. in environmental science from the Oregon Graduate Center (now part of the Oregon Health and Science University) in 1979. Dr. Watson pioneered the use of receptor models for particulate matter (PM) NAAQS evaluation and attainment in the 1976-77 Portland Aerosol Characterization Study. He has prepared data analysis and guidance documents for EPA's Inhalable Particulate Network (EPA-450/4-81-035, EPA-450/4-84-016), PM sampling and speciation (EPA-452/R-94-009), source apportionment (EPA-600/2-81-029, EPA-450/4-84-020, EPA 450/4-87-010, EPA-450/4-90-004, EPA-451/R-04-001), compliance network design (EPA-454/R-99-022), and continuous PM monitoring (EPA-454/R-98-012). He led or was a major contributor to visibility studies in Denver, Phoenix, Tucson, the Colorado Plateau, and Central California. Prior technical advisory experience includes the U.S. Navy's "Expert Panel on Chaff" (1999), the National Research Council's (NRC) committee on "The Effects of Changes in New Source Review Programs for Stationary Sources of Air Pollutants" (2004 – 2006), NRC's committee on "Energy Futures and Air Pollution in Urban China and the United States" (2005-2008), and the "Central California Air Quality Studies Technical Advisory Committee" (1995-2008). He is a long-term and active member of the Air & Waste Management Association and the American Association for Aerosol Research. His current and recent research projects have been supported by the National Institute of Occupational Safety and Health, the National Parks Service, the National Science Foundation, the World Bank, the Wood Buffalo Environmental Association, the Electric Power Research Institute, and ArcelorMittal Tubarão, Brazil. He is author or co-author of >600 peer-reviewed articles and book chapters and >200 technical reports. He has been recognized by ISIHighlyCited.com in ecology and environment and is one of Stanford University's "Top 2% of the Worlds' Most Cited Scientists" and ranked 74th on Research.com's World's Top Environmental Sciences Scientists.

West, Jason

University of North Carolina at Chapel Hill

Dr. J. Jason West is Professor of Environmental Sciences & Engineering at the University of North Carolina at Chapel Hill. Dr. West is an engineer and leader in interdisciplinary research that connects air pollution, climate change, energy, and human health, using models of atmospheric transport and chemistry at global through local scales. He led some of the first studies to use computer models of the global atmosphere to assess the health impacts of ambient air pollution, addressing the global burden of air pollution on mortality, the co-benefits of greenhouse gas mitigation for global air quality and health, and the impacts of climate change on global air quality and health. Dr. West has served on the Scientific Steering Committee of the International Commission on Atmospheric Chemistry and Global Pollution, and the National Aeronautics and Space Administration (NASA) Health and Air Quality Applied Sciences Team, and is a Leopold Leadership Fellow. He is on the editorial board of Atmospheric Chemistry & Physics, and of the Reviews section of Environmental Research Letters. His research has recently been funded by the National Science Foundation (NSF), Environmental Protection Agency (EPA), and NASA. He has published in prominent journals including Nature Climate Change, and Nature Geoscience, and his work has been featured in major news outlets including New York Times and CBS News. He has written and spoken with the public extensively on global climate change and air pollution. He earned a B.S. from Duke University, M.Phil. from the University of Cambridge, and an M.S. and Ph.D. from Carnegie Mellon University. He worked as a researcher at the Massachusetts Institute of Technology (MIT) and Princeton, was an American Association for the Advancement of Science (AAAS) Fellow at the U.S. Environmental Protection Agency, and a visiting scientist at the National Institute for Ecology in Mexico City.