



THE ENVIRONMENTAL HEALTH MATTERS INITIATIVE

COMMUNITIES, CLIMATE CHANGE, AND HEALTH EQUITY – A NEW VISION

A VIRTUAL WORKSHOP OF THE ENVIRONMENTAL HEALTH MATTERS INITIATIVE

As the climate crisis intensifies extreme weather events, increases global temperatures, and accelerates sea level rise, communities least able to respond are bearing the largest burden. This two-day virtual workshop will bring together people with lived experience, environmental health experts, resilience practitioners, and climate scientists to outline the disproportionate impact that climate change has on communities experiencing health disparities and environmental injustice. The workshop, hosted by the [Environmental Health Matters Initiative \(EHMI\)](#) at the National Academies of Sciences, Engineering, and Medicine, will address three critical questions: Where are we now? How did we get here? Where do we want to go? Speakers and participants will share their visions for the future and suggest specific policies decision-makers can implement today to address the intersecting crises of climate change and health inequity.

This workshop, the first in a four-part series, will take place on October 12 and 14, 2021. Learn more on [our webpage](#).

TUESDAY, OCTOBER 12

EXPLORING COMMUNITY-LEVEL HEALTH CONSEQUENCES OF THE CLIMATE CRISIS AND
ENVISIONING OUR CLIMATE FUTURE

11:00 **Welcome and Overview**

Elizabeth Eide, The National Academies of Sciences, Engineering, and Medicine

EHMI Co-Chair: Martha Rudolph, Colorado Department of Public Health and Environment, Retired

EHMI Co-Chair: Jonathan Samet, Colorado School of Public Health

Planning Committee Chair: Jeanne Herb, Rutgers University

11:20 **Session I: How does the climate crisis affect environmental health in communities today?**

Moderator: Adrienne Hollis, Hollis Environmental Consulting

Allison Crimmins, National Climate Assessment

Hilton Kelley, Community In-Power and Development Association

The National Academies of
SCIENCES • ENGINEERING • MEDICINE



Surili Patel, The Metropolitan Group

Martha Rudolph, Colorado Department of Public Health and Environment, Retired

Dan Wildcat, Haskell Indian Nations University

Leo Woodberry, Kingdom Living Temple, New Alpha Community Development Corporation

Experts in environmental health, health equity, and climate change will give a brief overview of the broad issues. Storytellers from a range of communities disproportionately impacted by climate change and health inequities will share their experiences of effects on the ground in their communities.

12:45 Break

12:50 Session II: How is equity addressed in climate and health funding today?

Moderator: Phil Johnson, The Heinz Endowments

Munerah Ahmed, New York City Department of Mental Health and Hygiene

Marcia Dinkins, Black Appalachian Coalition

Dorette Quintana English, California Department of Public Health

Carmen Llanes Pulido, Go Austin / Vamos Austin

Marc Nascarella, Massachusetts Department of Public Health

Mariella Puerto, Barr Foundation

As attention increases on the need to fund equitable solutions to the climate crisis, funders as well as local and state grantees will discuss how climate-related programs address environmental health and health equity at the local level. Speakers will discuss how they engage with communities, highlight best practices for incorporating equity into climate and health programming, identify gaps in funding and data, and describe the actions needed to address gaps.

1:50 Break

2:05 Session III: What climate and health equity future do we want to work toward?

Moderator: Suzi Ruhl, Yale School of Medicine

Barbara Gottlieb, Physicians for Social Responsibility

Jacqui Patterson, The Chisholm Legacy Project

James Rattling Leaf, Great Plains Tribal Water Alliance, North Central Climate Adaptation Science Center

Ruth Santiago, Community and Environmental Lawyer

Omega, Brenda, and Ayo Wilson, West End Revitalization Association

In this visioning session, innovators and leaders from communities across the country will describe the policies, funding, and programs needed to build the world they wish to see. Speakers will identify actors and actions needed to implement their visions in the short- and medium-terms. Workshop attendees will also be invited to contribute their ideas and visions to the discussion.

3:50 Day One Wrap Up

Planning Committee Chair: Jeanne Herb, Rutgers University

4:00 Adjourn



THURSDAY, OCTOBER 14

ADDRESSING THE ENVIRONMENTAL HEALTH AND HEALTH EQUITY IMPLICATIONS OF THE CLIMATE CRISIS THROUGH POLICY

12:00 **Welcome**

Planning Committee Chair: Jeanne Herb, Rutgers University

12:15 **Session IV: How can current policies help us achieve our envisioned future?**

Moderator: Linda Rudolph, Public Health Institute

Manal Aboelata, Prevention Institute

Ann Marie Chischilly, Institute for Tribal Environmental Professionals

Rohan Radhakrishna, Office of Health Equity, California Department of Public Health

Jackie Qataliña Schaeffer, Alaska Native Tribal Health Consortium

Stephanie Smith, Maryland House of Delegates, Baltimore City Department of Planning

Officials and leaders at the local and state levels will discuss how to address environmental health, health equity, and the climate crisis through existing government policy. Speakers will focus on data and policy gaps to identify specific actions that different actors should take to build healthier, more resilient, and more equitable communities. Workshop attendees will be invited to share their ideas about promising policy and regulatory changes.

1:30 **Break**

1:45 **Session V: How can new federal initiatives help us achieve our envisioned future?**

Moderator: Sacoby Wilson, University of Maryland

Sonia Aggarwal, White House Office of Domestic Climate Policy

Patrick Breyse, National Center for Environmental Health/Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention

Krystal Laymon, White House Council on Environmental Quality

Kristin Leahy Fontenot, Office of Environmental Planning and Historic Preservation, Federal Emergency Management Agency

Heidi Stiller, Office for Coastal Management, National Oceanic and Atmospheric Administration

Richard Woychik, National Institute of Environmental Health Sciences/National Toxicology Program

This session will feature leaders from across the federal government, who will discuss actions they are taking to address health equity and the climate crisis in their programming. Panelists will highlight the cross-government collaboration strategies needed for an effective, equitable approach to addressing climate impacts on communities and respond to attendee questions.

3:00 **Session VI: Reflections on the workshop: Where do we go from here?**

Moderator: Jeanne Herb, Rutgers University

Ana Diez Roux, Drexel University

Tisha Holmes, Florida State University

Rebecca Morss, National Center for Atmospheric Research

Bakeyah Nelson, Climate Imperative, Energy Innovation



Panelists will reflect on the insights and themes that emerged from the event. They will identify actors and actions needed to equitably address environmental health and health equity challenges in communities disproportionately impacted by the climate crisis.

3:40 Concluding Remarks

Planning Committee Chair: Jeanne Herb, Rutgers University

EHMI Co-Chair: Martha Rudolph, Colorado Department of Public Health and Environment, Retired

EHMI Co-Chair: Jonathan Samet, Colorado School of Public Health

4:00 Adjourn



SPEAKER BIOS

Manal J. Aboelata, MPH is Deputy Executive Director at Prevention Institute, a national non-profit dedicated to advancing effective strategies to achieve health equity, prevent illness and injury, and ensure safe and healthy communities. An epidemiologist by training, Manal advocates for health equity and racial justice. Manal Aboelata writes and speaks on many issues, especially those pertaining to health equity and the built environment. Manal has co-authored a chapter in the first and second editions of *Making Healthy Places* and written the foreword for a forthcoming book, *Schools that Heal*. In the form of original articles, op-eds and policy briefs, she has written extensively on timely, relevant public health justice issues. Manal has served on numerous health advisory boards, review panels, and expert councils. She is currently serving her third and final term as an appointee of Supervisory District 2 (South Los Angeles) to Los Angeles County's Community Prevention and Population Health Taskforce. Manal graduated from UCLA with a Masters in Epidemiology ('01) and from UC Berkeley with a Bachelor of Arts ('98). Manal was inducted into UCLA Hall of Fame ('09) and was a Stanton Fellow of the Durfee Foundation ('17-'19).

Sonia Aggarwal has served as the Senior Advisor for Climate Policy and Innovation at the White House since day 1 of the Biden-Harris administration. Previously, she was a cofounder and the vice president of [Energy Innovation](#). While at Energy Innovation, she acted as founding executive director of the Climate Imperative project; led America's Power Plan, bringing together 200 electricity policy experts; and directed the team that developed the [Energy Policy Simulator](#) to analyze the environmental, economic, and public health impacts of climate and energy policies. Prior, Aggarwal managed global research at [ClimateWorks Foundation](#), where she worked on the [McKinsey carbon abatement cost curves](#) and led research for the [American Energy Innovation Council](#). Raised in Ohio, Aggarwal graduated from Haverford College in astronomy and physics, and earned a masters at Stanford University in civil engineering.

Munerah Ahmed, MPH, is the manager for Climate and Health project of the Bureau of Environmental Surveillance and Policy at the New York City Department of Health and Mental Hygiene. In this role, she oversees and implements strategies and activities to prepare for and respond to the health impacts of extreme weather and climate change. Among the activities, is Be A Buddy, the first program in the city to bolster community social cohesion in order to increase climate resiliency. Prior to joining DOHMH, Ms. Ahmed worked in the fields of non-profit, and medical education/healthcare communication. Ms. Ahmed received her Master of Public Health (MPH) in Health Policy and Management from the Mailman School of Public Health at Columbia University.

Patrick Breyse, PhD, joined CDC in December 2014 as the Director of NCEH/ATSDR. Dr. Breyse leads CDC's efforts to investigate the relationship between environmental factors and health. He came to CDC from the Johns Hopkins University where his research focused on the evaluation and control of chemical, biological, and physical factors that can affect health, with a particular concentration on risk and exposure assessment. Under Dr. Breyse's leadership, the agency has prioritized work on exposure to lead, safe drinking water, initiated new ATSDR actions to address exposure to hazardous chemicals, and has played a critical role in CDC's emergency preparedness and response to natural disasters and chemical exposures. Dr. Breyse received his PhD in Environmental Health Engineering from Johns Hopkins University in 1985.



and completed postdoctoral training at the British Institute for Occupational Medicine in Edinburgh, Scotland.

Ann Marie Chischilly is the Executive Director at the Institute for Tribal Environmental Professionals (ITEP). She is responsible for managing ITEP's work with Northern Arizona University, state and federal agencies, tribes and Alaska Native villages. In 2017, ITEP celebrated 25 years serving over 95% of all the 573 Tribes and Alaskan Native Villages nationwide. Ms. Chischilly currently serves on several federal advisory committees including the Environmental Protection Agency's (EPA) National Advisory Committee, the Advisory Committee for the Sustained National Climate Assessment (Now the Independent Advisory Committee on the Sustained National Climate Assessment) and EPA's National Safe Drinking Water Council. From 2013 to 2015, Ms. Chischilly also served on Department of Interior's Advisory on Climate Change and Natural Resource Science. Ms. Chischilly speaks both nationally and internationally on topics of Indian Law, Environmental Law, Tradition Knowledges, Water Law and Tribes/Indigenous Peoples. She works with the United Nations on issues of the Protection of Traditional Knowledge and co-wrote, "Guidelines for the Use of Traditional Knowledge in Climate Change Initiatives". Before coming to ITEP, she served for over ten years as Senior Assistant General Counsel to the Gila River Indian Community (Community), where she assisted the Community in implementing the historic "Arizona Water Settlement Act" and founded the Community's Renewable Energy Team. Ms. Chischilly is an enrolled member of the Navajo Nation (Diné). She earned her Juris Doctorate degree from St. Mary's University School of Law and a Masters in Environmental Law (LL.M) from Vermont Law School. She is licensed in Arizona and has practiced in state, district, and federal courts. She is also a member of the International Bar Association.

Allison Crimmins is the Director of the National Climate Assessment for the U.S. Global Change Research Project as part of the Office of Science and Technology Policy Climate & Energy team. She is tasked with leading the fifth National Climate Assessment, expected to be released in 2023. Allison is a climate scientist detailed from EPA's Office of Air and Radiation and has expertise in assessing domestic and international climate impacts and mitigation benefits, particularly on health and economic damages. She has a record of convening diverse teams devoted to scientifically-sound risk assessment and policy implementation, notably as the lead of the 2016 U.S. Climate and Health Assessment. Allison was also an author on the fourth National Climate Assessment and co-lead on EPA's 2017 Climate Change Impacts and Risk Analysis project. Over the past ten years at EPA, Allison has helped coordinate cross-agency research plans and contributed to multiple regulatory and risk assessment efforts, including the GHG Endangerment Finding, Clean Power Plan, and Benefit-Cost Analysis Rule. She has a Master of Science in oceanography from San Francisco State University and Master in Public Policy from the Harvard Kennedy School.

Rev. Marcia Dinkins is the new Executive Director for Ohio IPL. Rev. Dinkins brings with her organizing experience on the national, state and local levels. She has a background in organizing on issues related to domestic violence, health and safety, education, jobs and crime. She holds three degrees: Associate of Arts (Oakland Community College); Bachelor of Arts in Interdisciplinary and Women and Gender Studies (University of Toledo) and a Master of Arts in Criminal Justice & Policy (Youngstown State University). She has taught social justice workshops at Case Western University, Bowling Green State University and at the American Baptist Churches Leadership Academy. She has a certificate in Forgiveness Therapy,



Cultural Competency and Executive Management Leadership, and is a certified Restorative Justice Trainer. Rev. Dinkins was ordained in 2003. In January of 2017, Marcia organized leaders to build a campaign to protect and defend Medicaid and Social Safety Nets to ensure families have a quality of life in both urban and rural communities. She has mobilized leaders and trained clergy on the criticality of protecting Medicaid and social safety nets. As the Executive Director of the Mahoning Valley Organizing Collaborative, Marcia organized the Free Bresha and Standing with Bresha Campaign which has become a national movement to rehabilitate and not incarcerate victims of domestic abuse. While living in Michigan, Marcia owned and operated a medical clinic and substance abuse facility where she was licensed to provide prevention, intervention, screening, assessment, referrals and follow-up. Marcia has been recognized by Sojourners as one of the 10 Women of Faith Leading the Change Ahead. She has served on the Foster Care Review Board, the Toledo Public School Disciplinary Board and two terms on the Strong Families/Safe Children Board. She is currently the Board President for Ohio Can Change Addiction Now and serves on the Standing Courageous (for survivors of domestic violence) Board. Rev. Dinkins is committed to utilizing her God-given gifts to be an instrument of change in the lives of others. She is dedicated to the call upon her life to be a catalyst for transformation and healing justice. Marcia is the mother of 6 children and currently resides in Toledo.

Kristin Leahy Fontenot currently serves as Director of FEMA's Office of Environmental Planning and Historic Preservation (OEHP), where she leads a Headquarters team of approximately 70 and a national cadre of more than 450 deployable environmental and historic preservation professionals supporting disasters nationwide. Each year, the FEMA EHP team reviews approximately 32,000 discrete FEMA grant projects for their compliance with a host of environmental and historic preservation laws, regulations, and Executive Orders. In 2021, over \$34B in federal assistance was reviewed by FEMA EHP across all Grant programs. Since early 2021, Ms. Fontenot has been assigned co-chair for FEMA's Climate Adaptation Enterprise Steering Group (ESG), responsible for developing a set of recommendations for the Agency's role in mitigating the climate crisis. As part of EHPS responsibilities, Ms. Fontenot is assisting in an agency-wide assessment of program opportunities and challenges associated with climate adaptation and equity, particularly environmental justice concerns to help inform the next FEMA Strategic Plan.

Barbara Gottlieb is program director of the Environment & Health Program at Physicians for Social Responsibility (PSR) where she guides PSR's national work on climate, energy and air quality. She conceives and develops program, prepares materials, writes reports and white papers, makes educational and media presentations and engages PSR chapters and members in advocacy. Gottlieb is the lead author or coauthor of PSR's major reports on the health implications of fossil fuels, including *Too Dirty, Too Dangerous: Why Health Professionals Reject Natural Gas; Coal Ash, The Toxic Threat to our Health and Environment*, and *Coal's Assault on Human Health*; she also edited several of PSR's reports related to methane and hydraulic fracturing. Previous to serving as the program director of Environment & Health, she served as deputy director, directing PSR's program addressing the health effects of coal-fired power plants. Her prior work encompasses several decades in the nonprofit sector, where she carried out grassroots organizing, advocacy, fundraising and communications. At the Women's Edge Coalition, she conducted outreach to women's organizations around the world and mobilized members to insert a greater focus on women in U.S. international assistance policy. As the deputy director of the Center for Media Education, she



helped design, then managed, research on youth use of electronic media for civic engagement. Earlier, Ms. Gottlieb directed a nonprofit that raised funds for grassroots development projects in Central America. She also lived in Guatemala for five years where she worked for an indigenous organization, raising funds and conducting grassroots training in sustainable development.

Hilton Kelley is a leading figure in the battle for environmental justice on the Texas Gulf Coast, as he fights for communities living in the shadow of polluting industries. Mr. Kelley is originally from and currently lives in the refinery and chemical manufacturing town of Port Arthur, Texas. In addition to being a community organizer, Mr. Kelley is an electrician and former second class petty officer in the U.S. Navy. After the Navy, Mr. Kelley remained in California where he worked as a youth activist and was recognized for his youth anti-gang violence efforts and acting ability. He was admitted to the Screen Actors Guild in 1991. Mr. Kelley moved back to Port Arthur in order to help rebuild and save the community from which he came. Pollution, neglect, and deep despair had taken a heavy toll on Port Arthur. In response, Mr. Kelley organized CIDA and began to challenge the regulatory agencies and their policies, and the environmental violations of the plants that loom over the community. CIDA collects scientific data about the sources, types, and amounts of pollution emitted by polluting neighbors and educates residents of Port Arthur (who are overwhelmingly low-income individuals and people of color) about the toxic burden they shoulder. Mr. Kelley has testified before the Texas legislature and the U.S. Senate, addressed UNESCO in Paris, as recent as March 2014 Mr. Kelley was invited by Senator Barbara Boxer to capital hill to help shine a spotlight on the harmful nature of tar sands crude oil on vulnerable communities at a national press conference, he was also invited to the White House to meet with President Obama to share his views on the environmental state of the U.S. He received the 2003 Environmental Justice Award from the Sierra Club Lone Star Chapter, the 2004 Ben & Jerry Award for Environmental Activism, and the North America 2011 Goldman Environmental Prize winner. Mr. Kelley served on the National Environmental Justice Advisory Council (NEJAC) to EPA from 2009-2011 he also served as vice chairmen of the “Regional Health Equity Council” from 2011-2013 Mr. Kelley is presently serving as a Regional Health Equity Council member still, Locally in his home town he is a member of the Pipeline committee and a National Partnership for Action (NPA) member. Mr. Kelley’s work in his community continues.

Krystal Laymon specializes in climate, resilience, and energy policy. She currently serves as the Deputy Director for Climate Resilience at the White House Council on Environmental Quality. Previously, she managed a team at the Federal Emergency Management Agency (FEMA) supporting disaster recovery and adaptation efforts. In addition, Krystal had served as a U.S. Department of Energy (DOE) policy advisor supporting community resilience and equity strategies, and leading interagency coordination.

Carmen Llanes Pulido is a community organizer and the founding executive director of Go Austin/ Vamos Austin or GAVA, a group that organizes and mobilizes community power for health equity in Austin's Eastern Crescent. Llanes Pulido was a youth intern and later a research analyst and organizer with the East Austin Environmental Justice organization, PODER, from 2005-2011. Llanes Pulido holds an interdisciplinary B.A. in Environmental Studies from the University of Chicago and is a 2019-20 Fulcrum Fellow with the Center for Community Investment at the Lincoln Institute of Land Policy. She currently serves on Austin's Planning Commission, and formerly chaired the Latino Quality of Life Commission.



Marc A. Nascarella is the Chief Toxicologist and Director of the Environmental Toxicology Program at the Massachusetts Department of Public Health where he directs a team of scientists responsible for evaluating the safety of contaminants in food, environmental media (e.g., air, water, soil), and consumer products in the Bureau of Environmental Health (BEH). Dr. Nascarella also oversees technical staff supporting regulatory activities associated with the medical use of marijuana, surveillance of waterborne pathogens at public beaches, and the environmental monitoring of radionuclides in areas surrounding three nuclear power plants. Dr. Nascarella provides technical direction of staff working on federal cooperative agreements related to: environmental public health tracking, health assessments at hazardous waste sites, evaluation of harmful algae blooms, health impacts of climate change, biological monitoring of chemical exposure, and developing methods for Health Impact Assessments. He serves as the Commissioner of Public Health's designee on regulatory matters related to drinking water quality, toxics-use reduction, and pesticide use/registration; and is a member of the BEH emergency response team. Dr. Nascarella is a board certified public health professional (CPH) with an MS, PhD, and post-graduate training in toxicology. His professional work has been published in peer-reviewed journals and books, and has been presented at local, national, and international professional meetings. This research has been recognized with awards from the National Academy of Sciences, Society of Toxicology, Entomological Society of America, Society for Risk Analysis, and the International Dose-Response Society. In addition to public service, Dr. Nascarella has previously held positions in the active-duty military, academia, and private sector. He currently serves as an Adjunct Professor of Toxicology at the University of Massachusetts School of Public Health and Health Sciences.

Surili Sutaria Patel is a Vice President of Metropolitan Group, where she serves as a trusted voice in public health, promotes diversity, and works to advance health equity and environmental justice. With a profound public health and biomedical research background, Patel has led the climate and health discussion out of environmental circles and into the broader public health realm. Her areas of expertise include: developing strategy on intersectional issues, like climate change, health equity and Tribal public health; building partnerships among public agencies and communities; designing advocacy and national policy strategy; and crafting environmental health messaging. Additionally, Patel has deep issue-based knowledge in environmental health priorities including water safety and security, children's environmental health, Tribal public and environmental health, transportation and health, and healthy community design. Prior to her current work with Metropolitan Group, Patel held several key positions at the American Public Health Association, including Director of the Center of Climate, Health & Equity. She also served as the Senior Specialist on Environmental Health at the Association of Public Health Laboratories. Patel also serves the community through her membership on several boards and committees, including: the Physicians for Social Responsibility Board of Directors; the Advisory Board of the Yale Center on Climate Change and Health; the RESOLVE Board of Advisors; and the Green Leadership Trust. Patel received her Masters of Science in Biomedical Science Policy and Advocacy from Georgetown University in 2008.

Jacqueline Patterson is the Founder and Executive Director of the Chisholm Legacy Project: A Resource Hub for Black Frontline Climate Justice Leadership. The mission of the Chisholm Legacy Project is rooted in a Just Transition Framework, serving as a vehicle to connect Black communities on the frontlines of climate justice with the resources to actualize visions. Prior to the launch of the Chisholm Legacy Project,



Patterson served as the Senior Director of the NAACP Environmental and Climate Justice Program for over a decade. During her tenure, she founded and implemented a robust portfolio which included serving the state and local leadership whose constituencies consisted of hundreds of communities on the frontlines of environmental injustice. She also led a team in designing and implementing a portfolio to support political education and organizing work executed by NAACP branches, chapters, and state conferences. Since 2007, Patterson has dedicated her career to intersectional approaches to systems change. Her passion for social justice led her to serve as coordinator & co-founder of Women of Color United; Senior Women's Rights Policy Analyst for ActionAid; Assistant Vice-President of HIV/AIDS Programs for IMA World Health, Outreach Project Associate for the Center on Budget and Policy Priorities, Research Coordinator for Johns Hopkins University, and U.S. Peace Corps Volunteer in Jamaica. Patterson has published multiple articles, reports, and toolkits including: *"Equity in Resilience Building for Climate Adaptation: An Indicators Document," "Jobs vs Health: An Unnecessary Dilemma," "Climate Change is a Civil Rights Issue," "Gulf Oil Drilling Disaster: Gendered Layers of Impact," "Disasters, Climate Change Uproot Women of Color," "And the People Shall Lead: Centralizing Frontline Community Leadership in the Movement Towards a Sustainable Planet," "In the Eye of the Storm," "Our Communities, Our Power," "Fossil Fueled Foolery."* She's also authored chapters in two books as follows: "Equity in Disasters: Civil and Human Rights Challenges in the Context of Emergency Events" in the book *Building Community Resilience Post-Disaster*, as well as, "At the Intersections" in the book, *All We Can Save*. Patterson holds a Master's degree in Social Work from the University of Maryland and a Master's degree in Public Health from Johns Hopkins University. She currently serves on the Advisory Boards for Center for Earth Ethics and the Hive Fund for Gender and Climate Justice, on the Governance Assemblies for Mosaic Momentum, Environmental Justice Movement Fellowship, and the Equitable Building Electrification Fund, as well as on the Boards of Directors for the Institute of the Black World, the Bill Anderson Fund, the American Society of Adaptation Professionals, the Movement Strategy Center, the Just Solutions Collective, and the National Black Workers Center Project.

Mariella Puerto is Director of Barr's Climate program, managing grantmaking and other initiatives to advance equitable solutions for clean energy, mobility, and resilient communities. She serves as Chair of the board of the Environmental Grantmakers Association. Prior to joining the Foundation in 2001, Mariella spent four years as deputy director of the Robert Wood Johnson Community Health Leadership Program and three years as founding director of the Boston Lead Action Collaborative, a public-private partnership created to address the high rates of childhood lead poisoning in Boston. Before embarking on her career in the nonprofit sector, Mariella was a co-op owner of a vegetarian restaurant in Vermont. Born in Malaysia of Filipino, Chinese, and Thai heritage, Mariella earned her bachelor's degree in political science from Brandon University in Manitoba, Canada, and her master's degree in political science from Ohio University.

Jackie Qataliña Schaeffer, an Iñupiaq from Kotzebue, Alaska, is the Community Development Manager at the Alaska Native Tribal Health Consortium. For a decade she has worked across Alaska holistically infusing indigenous knowledge into a variety of sectors she has experience in, including comprehensive planning, energy, housing, water security, and sanitation and climate change adaptation for rural



communities. Qataliña received her fashion degree from the American College in London, Residential Space Planning certificate and studied Interior Design at the Art Institute of Pittsburgh. Qataliña currently sits on the NANA Regional Corporation Board of Directors, Alaska Institute for Climate & Energy board, Koniag Broadcasting Corporation board, RCAC board, Kikiktagruk Inupiat Corporation shareholder, and a tribal member of the Native Village of Kotzebue. Qataliña loves her traditional subsistence activities and sharing them with her six children and seven grandchildren. She currently resides in Palmer, Alaska.

Dorette Quintana English, MA, has led the CalBRACE Project in the Climate Change and Health Equity Section in the Office of Health Equity in the California Department of Public Health since 2013. She has focused on equity and the environment in public health, education and community development in rural and tribal communities in NE California for more than 20 years before joining the Office of Health Equity. She is a published photographer and writer on economic justice, literature and art, climate change and health, and environmental topics.

Rohan Radhakrishna was appointed by Governor Newsom in the spring of 2021 to lead California's [Office of Health Equity](#) which includes the [Climate Change and Health Equity Section](#). He serves as a Deputy Director at the California Department of Public Health and as the Tribal Liaison. He brings 20 years of experience working with impacted communities. He served as Co-Chair of the statewide Health Equity Committee for the California Conference of Local Health Officers since 2019 and spent 10 years at a local health department most recently as Deputy Health Officer in Contra Costa County. His local experience responding to the COVID-19 pandemic, power shutoffs, wildfire smoke, and heat emergencies has solidified his commitment to addressing the overlapping public health crises of climate change and structural racism. Rohan was a Steering Committee Member of the AB617 Community Air Protection Program in Richmond/San Pablo and assisted with local Climate Action Plan and General Plan Updates incorporating SB1000 requirements. He brings a global perspective to California's diverse population having worked as Assistant to the U.S. Ambassador at Doctors Without Borders and a Public Health Consultant for various global organizations.

James Rattling Leaf, Sr. is coordinator of Climate Partnerships for the Great Plains Tribal Water Alliance and Principal, Rattling Leaf Consulting LLC in Black Hawk, South Dakota. A member of South Dakota's Rosebud Sioux tribe, James has served as a Visiting Collaborator, South Dakota School of Mines and Technology; Director, Geo-Spatial Applications Center, Sinte Gleska University; Board Member, Education Committee, American Geophysical Union (AGU); Fellow, International Indigenous Resource Management Institute, Denver; Cultural Advisory Board Member, Deep Underground Science and Engineering Lab; Board of Directors, South Dakota National Science Foundation EpSCOR; Member, NASA Space Grant Consortium EpSCOR Technical Advisory Committee; and Cultural Advisor, NOAA National Integrated Drought Information Systems (NIDIS). James received his B.A. in Lakota Studies from Sinte Gleska University (Rosebud Reservation, Mission, South Dakota).

Martha E. Rudolph was the Director of Environmental Programs for the Colorado Department of Public Health and Environment from 2007 to January 2019. As the Director, Ms. Rudolph oversaw the Air Quality, Environmental Health and Sustainability, Hazardous Materials and Waste Management, and Water Quality



Divisions. In 2010, Ms. Rudolph served as the Executive Director of the Department of Public Health and Environment under Governor Bill Ritter. Ms. Rudolph is an advisory member of the Division on Earth and Life Studies of The National Academies of Sciences, Engineering, and Medicine, an advisory member of The National Academies' Environmental Health Matters Initiative, a member of the Colorado Air Quality Control Commission, a member of the Board of Directors for the Environmental Research Institute of the States, Co-Chair of the Membership Committee of the American College of Environmental Lawyers, and a state advisor for the Georgetown Climate Center. Ms. Rudolph was a recent chair of the Colorado Regional Air Quality Council, selected by Governor Polis in 2019 and serving until January 2021. She was a past President of the Environmental Council of States, co-chair of the ECOS Shale Gas Caucus and chair of the ECOS Air Committee. Ms. Rudolph served as a member and vice-chair of the Colorado Water Quality Control Commission from 2000 to 2007. An environmental attorney, Ms. Rudolph was a First Assistant Attorney General in the Colorado Attorney General's Office, and was in private practice, and in-house at a natural gas pipeline company. Ms. Rudolph received her JD from Georgetown University Law Center.

Suzi Ruhl, JD, MPH, joined the faculty at the Yale School of Medicine, Child Study Center, as Senior Research Scientist in 2020, where she also serves as Director of Policy for the Elevate Policy Lab at the Yale School of Public Health. Her interests are to strengthen child, maternal and family mental health and social support, and equitably build individual and community resiliency by tackling highest priority conditions created by health, economic and environmental challenges. Ruhl co-founded Brownfields to Healthfields, a community driven, multi-stakeholder approach to transform contaminated properties into community spaces that meet essential health needs. She also co-produced an analytical methodology titled Promising Practices for EJ Methodologies in NEPA Reviews for advancing the consideration of environmental justice, including the human environment, in environmental reviews under the National Environmental Policy Act. Prior to her Yale appointment, she served as Senior Counsel at the US EPA in the Office of Environmental Justice where she served on the Federal Interagency Working Group on Environmental Justice as Co-Chair of the National Environmental Policy Act Committee, Co-Chair of the Rural Communities Committee, Chair of the Subcommittee on Place Based Efforts, and founding member of the Natural Disaster Subcommittee. She also chaired Team EJ of the HUD-DOT-EPA Partnership for Sustainable Communities. Further, she founded and served as President and General Counsel of the Legal Environmental Assistance Foundation, Inc., a public interest law firm established to serve communities of color and low wealth bearing the burden of pollution, disease, poverty and crime. In addition to her law degree, Ruhl has a master's degree in Public Health Epidemiology.

Jonathan M. Samet, a pulmonary physician and epidemiologist, is Dean of the Colorado School of Public Health and Professor in the departments of Epidemiology and Environmental & Occupational Health. His research has focused on the health risks of inhaled pollutants and he has also investigated the occurrence and causes of cancer and respiratory diseases, emphasizing the risks of active and passive smoking. He has served on and chaired numerous committees of the National Academies of Science, Engineering and Medicine and he also chaired the Clean Air Scientific Advisory Committee (CASAC) of the U.S. EPA and the FDA's Tobacco Products Scientific Advisory Committee (TPSAC). Dr. Samet has served as editor and author for Reports of the Surgeon General on Smoking and Health since 1984, receiving the Surgeon



General's Medallion in 1990 and 2006 for these contributions. He was the Senior Scientific Editor for the 50th Anniversary 2014 report. Dr. Samet received the 2004 Prince Mahidol Award for Global Health awarded by the King of Thailand, the Edward Livingston Trudeau Medal from the American Thoracic Society/American Lung Association, the Luther L. Terry Award for Distinguished Career from the American Cancer Society, and the Fries Prize for Health. He was elected to the National Academy of Medicine (Institute of Medicine) of the National Academy of Sciences in 1997 and received the Academy's David M. Rall Medal for his contributions in 2015.

Ruth Santiago is a resident of the municipality of Salinas in southeastern Puerto Rico where she has worked with community and environmental groups, fisher's associations and other organizations for over thirty years on projects ranging from a community newspaper, children's services, a community school, ecotourism projects to rooftop solar energy pilot projects. Ruth has been involved in the establishment of broad alliances to prevent water pollution from landfills, power plant emissions and discharges and coal combustion residual waste. She is part of a civil society initiative to promote community-based solar projects and energy democracy called We Want Sun (queremossolpr.com). In addition to litigation in courts and administrative agencies, Ruth has co-organized environmental education projects, advised the Jobos Bay National Estuarine Research Reserve on watershed protection and land use issues. Most recently, Ruth has worked on cases related to energy projects and integrated resource plans. Ms. Santiago earned degrees from Lehigh University and Columbia Law School and has published articles on energy issues in Puerto Rico. Ruth Santiago serves on the White House Environmental Justice Advisory Council.

Stephanie M. Smith is serving her first term in the Maryland House of Delegates where she represents Baltimore City's 45th State Legislative District. She also chairs the Baltimore City House Delegation to the Maryland General Assembly. A Member of the House Ways and Means Committee, Stephanie sits on the Education and Gaming Subcommittees. By day, Stephanie serves as an Assistant Director for Equity, Engagement and Communications in the City of Baltimore's Department of Planning. Prior to joining the General Assembly, Stephanie worked in the federal policy arena as a staffer and lobbyist advancing public health, voting rights, affordable housing and environmental justice for the most vulnerable communities. Active in the Baltimore community, Stephanie has served on a host of Baltimore nonprofit boards and currently serves on the board for the Maryland School for the Blind (MSB). Stephanie is a proud graduate of Hampton University (BA), University of Delaware (MA), and Howard University School of Law (JD). She is a Member of the Maryland bar. Stephanie lives with her husband and two young sons in East Baltimore.

Heidi Stiller is the South Regional Director for NOAA's National Ocean Service (NOS) Office for Coastal Management (OCM.) Based in St. Petersburg, Florida, Heidi serves as a focal point for senior level coastal partner interaction at the regional, state, and local levels from North Carolina around to Texas and including the Caribbean. She helps to implement national and regional coastal and ocean programs, and connects on-the-ground partners with NOAA products and services. Before joining NOAA, Heidi worked for the North Carolina Division of Emergency Management and the Florida Coastal Management Program. Planning that incorporates hazard mitigation, climate adaptation, and natural resource sustainability is a focus of Heidi's work, including providing data and tools to help communities address coastal inundation risks. She has



experience with post-disaster recovery planning, and recently served as an author on the coastal chapter of the Fourth National Climate Assessment.

Daniel Wildcat, Ph.D., is a professor at Haskell Indian Nations University in Lawrence, Kansas, and an accomplished scholar who writes on Indigenous knowledge, technology, environment, and education. He is also director of the Haskell Environmental Research Studies Center, which he founded with colleagues from the Center for Hazardous Substance Research at Kansas State University. Wildcat helped design a four-part video series entitled *All Things Are Connected: The Circle of Life* (1997), which dealt with the land, air, water, biological, and policy issues facing Native nations. A Yuchi member of the Muscogee Nation of Oklahoma, Wildcat recently formed the American Indian and Alaska Native Climate Change Working Group, a tribal-college-centered network of individuals and organizations working on climate change issues. In 2008, he helped organize the Planning for Seven Generations climate change conference sponsored by the National Center for Atmospheric Research. He is the author, most recently, of *Red Alert! Saving the Planet with Indigenous Knowledge* (2009).

Omega and Brenda Wilson are the co-founders of the West End Revitalization Association (WERA) in 1994 of Mebane, NC. WERA incorporated as a 501-(c)(3) non-profit in 1995. Mission: support access to “basic public health amenities” (safe drinking water, sewer lines, housing, streets, sidewalks, and storm-water management) for people of color and marginalized communities. Federal administrative complaints were filed to support first-time infrastructure installation under the Clean Air Act, Safe Drinking Water Act, Clean Water Act, Resource Conservation and Recovery Act, etc. WERA supports primarily African American and Native American heritage communities: West End, White Level, Kimrey Road / Hawfields in Alamance County, and Buckhorn, Perry Hill, and Cheeks Cross in Orange County. February 1999 & Sept 2014: WERA filed complaints at U.S. Department of Justice (DOJ), under Title VI of the Civil Rights Act of 1964 and referenced the Environmental Justice Executive Order 12898 - 1994, to challenge the planned 8-lane interstate corridor that would destroy two historic African American and Native American communities in Mebane, NC. DOJ directed six branches of the federal government to investigate their lack of oversight of civil rights and public health guidelines during the highway planning process that had been going on for 16 years without opportunities for public input. The highway construction was placed on moratorium from 1999 to 2016. More than 100 homeowners, out of 500, have since had sewer lines installed for the first time and dirt streets paved, even though homes have been within two blocks of Mebane’s municipal sewer treatment plant since it was constructed in 1921. Omega served as a “community perspective” member of EPA’s National Environmental Justice Advisory Council (2007-2010). The EPA publication “Information to Action: Strengthening EPA Citizen Science Partnerships for Environmental Protection” (April 2018) features a case study on WERA community-owned and managed research (COMR) model. Omega and Brenda served on the National Citizen Science CitSci-2019 Conference’s Environmental Justice Planning Committee (2017-2019), Raleigh, NC. In the *AARP Bulletin*-April 2019, both are featured as “senior citizen – citizen scientists” for collaborative problem-solving that “addresses human being in their environment.”

Leo Woodberry was born and raised in New York City. There he became involved with community organizing at an early age, as a student organizer. Reverend Leo M. Woodberry oversees and operates



the Strategic Planning Division of Woodberry & Associates. With over 20 years' experience managing non-profit and for profit organizations, Reverend. Woodberry has accumulated a wealth of knowledge, partnerships, alliances and expertise in the environmental justice movement. He became involved in environmental work in the 1990s with the SC Department of Health and Environmental Control, around there issue of mercury emissions and advisories. He joined the newly formed African American Environmental Justice Action Network (AAEJAN) in 1994. AAEJAN was instrumental in uniting people of color across America, and in influencing the Ford Foundation and other philanthropic entities to support people of color communities disproportionately impacted by environmental hazards. Reverend Woodberry has also worked with a host of other organizations such as the; Southern Organizing Committee (SOC), The Deep South Center for Environmental Justice at Xavier University of Louisiana, The Environmental Justice Resource Center at Clark Atlanta University, The Environmental Protection Agency NEJAC (Region Four), SC Department of Health and Environmental Control, The National Wildlife Federation, SC Wildlife Federation, Sierra Club, Coastal Carolina League, South East Climate Network, Green Faith, Clemson Education and Research Center, Francis Marion University, WEACTION, Advancing Equity and Opportunities, Agricultural Missions, Inc. and a host of other organizations. He has and continues to work in the areas of; water, air, as well as renewable and sustainable energy issues with the SC Department of Health and Environmental Control and the US Environmental Protection Agency. In August 2001, Leo Woodberry attended the United Nations Conference on Racism and Xenophobia in Durban South Africa. There he presented a paper on the HIV AIDS epidemic entitled "The New Trade Triangle" and was a contributor to the resultant environmental statement added and adopted to the United Nations Declaration of Human Rights and subsequently signed by 161 countries. Reverend Woodberry works with NGOs certified with the United Nations Civil Society Organization. Woodberry & Associates has offices located in Florence, SC. Reverend Woodberry attended Francis Marion University and The University of South Carolina. He retired from AT&T after 20 years of service and received three Vice Presidential Corporate awards. The SC State Senate also presented him with an award in recognition of his community service. Reverend Woodberry is the pastor of Kingdom Living Temple, Executive Director of New Alpha Community Development Corporation in Florence, SC, and a member of the SC Environmental Justice Network.

Richard Woychik, Ph.D., became the Director of the National Institute of Environmental Health Sciences (NIEHS), one of the National Institutes of Health (NIH), and the National Toxicology Program (NTP) on June 7, 2020. In these roles, Woychik oversees federal funding for biomedical research to discover how the environment influences human health and disease. Woychik and NIEHS/NTP staff receives input from several advisory boards and councils to accomplish this significant task. Prior to becoming Director and since 2011, Woychik served as Deputy Director of NIEHS. In this role, he assisted the former NIEHS Director, Linda Birnbaum, Ph.D., in the formulation and implementation of plans and policies necessary to carry out the NIEHS missions and the administrative management of NIEHS. As a mammalian geneticist, Woychik has had a number of noteworthy accomplishments. His laboratory was the first to clone and characterize the gene called *agouti*, which provided molecular insights into obesity and the satiety response in the brain. Additionally, his laboratory was the first to identify a gene mutation associated with polycystic kidney disease, which provided insights into this molecular biology of this important human disease. Also,



his laboratory was the first to determine that a member of the protocadherin family was associated with the hearing loss in a mouse model that was ultimately paved the way to better understanding the molecular basis of Usher syndrome type 1F in humans. More recently his research program has been focused on investigating the molecular mechanisms associated with how environmental agents influence the epigenetic control of gene expression. Woychik previously served as president and CEO of Jackson Laboratory in Bar Harbor, Maine, and also functioned as the director of the laboratory's NCI designated Cancer Center. Prior to leading The Jackson Laboratory, Woychik's professional history also included positions in both academia and industry: chief scientific officer for Lynx Therapeutics, Hayward, CA; head of the Parke-Davis Laboratory of Molecular Genetics, Alameda, CA; professor within the Departments of Pediatrics, Genetics and Pharmacology at the Case Western Reserve University, Cleveland, Ohio; and senior research scientist at the Oak Ridge National Laboratory, Oak Ridge, Tenn. Woychik completed his B.S. and M.S. at the University of Wisconsin, Madison, and earned his Ph.D. in molecular biology at Case Western Reserve University in 1984. He received his postdoctoral training in the Laboratory of Philip Leder at Harvard Medical School with fellowship support from the Jane Coffin Childs Memorial Fund and from the Howard Hughes Medical Institute.



COMMITTEE BIOS

Jeanne Herb is the Executive Director of the Environmental Analysis and Communications Group at the Rutgers University Edward J. Bloustein School of Planning and Public Policy, where she leads initiatives at the intersection of social and environmental determinants of health, health equity, environmental sustainability, state and local public policy, and inclusive, participatory decision-making. Jeanne co-directs the state's Climate Change Resource Center, a service center providing support to communities, state and local decision-makers, and the private sector to advance equitable and science-informed climate change solutions. She also co-facilitates the New Jersey Climate Change Alliance, a collaboration of diverse New Jersey thought leaders that advances science-informed climate action in New Jersey. Prior to joining Rutgers, Jeanne spent more than two decades at the state Department of Environmental Protection, most recently as the Assistant Commissioner of Policy, Planning and Science, where she oversaw multidisciplinary programs related to environmental health, sustainable planning and development, environmental justice, climate change, and coastal management. Jeanne participated in the first cohort of the three-year Robert Wood Johnson Foundation Culture of Health Leadership Program and the second cohort of the Rutgers Leadership Academy. She is a 1981 graduate of Rutgers University with a B.A. degree in environmental studies and a concentration in education and a 1984 graduate of New York University with an M.A. in science, health and environmental journalism.

Ana V. Diez Roux (NAM) is Dean and Distinguished University Professor of Epidemiology in the Dornsife School of Public Health at Drexel University. Before joining Drexel University, she served on the faculties of Columbia University and the University of Michigan, where she was Chair of the Department of Epidemiology and Director of the Center for Social Epidemiology and Population Health at the University of Michigan School of Public Health. Her research areas include social epidemiology and health disparities, psychosocial factors and health, environmental health effects, and urban health. She has led large NIH and foundation funded research and training programs in the U.S. and in collaboration with various institutions in Latin America. She currently leads the Wellcome Trust funded Salud Urbana en America Latina/Urban Health in Latin America (SALURBAL) study and directs the Urban Health Collaborative at Drexel University. Diez Roux has served on numerous editorial boards, review panels, and advisory committees, including the Clean Air Scientific Advisory Committee of the EPA (as Chair), the Board of Scientific Counselors of the National Center for Health Statistics, and the CDC Community Preventive Services Task Force. She has received the Wade Hampton Frost Award for her contributions to public health from the American Public Health Association and the Award for Outstanding Contributions to Epidemiology from the American College of Epidemiology. She is an elected member of the American Epidemiological Society and the Academy of Behavioral Medicine Research. She was elected to the National Academy of Medicine in 2009 and has served on numerous academies committees including the Roundtable on Science and Technology for Sustainability, the Committee on Health Impact Assessment, and the Committee on Review of EPA's "Science to Achieve Results" Research Grants Programs. Originally trained as a pediatrician in her native Buenos Aires, she completed public health training at the Johns Hopkins University School of Hygiene and Public Health.



Jamie Donatuto is a Community Environmental Health Analyst for the Swinomish Indian Tribal Community, located in the Pacific Northwest of the United States. A Swinomish staff member for the past 21 years, Dr. Donatuto specializes in working with Indigenous communities in the development and implementation of projects that address the community's priorities, as well as distilling and communicating results for multiple audiences using mixed methods and structured decision-making analyses. In her research, she works with numerous Tribes and First Nations in using community-engaged social science methods to improve natural resource management decision-making, such as modifying human health risk assessments to reflect Indigenous values; analyzing toxics in local traditional foods and subsequent Indigenous health impacts; evaluating climate related impacts to Indigenous health and wellbeing; and developing adaptive management strategies founded on Indigenous ways of knowing. Her publications are widely cited. Most recently, she is the lead author of the Indigenous health and wellbeing section of the Bureau of Indian Affairs' Status of Tribes and Climate Change Report to inform the upcoming National Climate Assessment. Dr. Donatuto completed her doctoral studies at the University of British Columbia, Vancouver, Canada in the interdisciplinary program, with a focus on Indigenous community health and environmental studies.

Adrienne Hollis is both an environmental toxicologist and an environmental attorney. She has more than 20 years of experience in the environmental justice and public health arena. First, by working in the federal system as a section chief at the Agency for Toxic Substances and Disease Registry, where she worked on developing public health assessments for Superfund sites. Later, she served as an associate professor in the Institute of Public Health at Florida A&M University, where she developed the Environmental and Occupational Health track. After law school she worked as a law clerk in New Jersey District Court and the Third Circuit Court of Appeals. Dr. Hollis has also worked as a project attorney at Earthjustice and as the Director of Federal Policy at WE ACT for Environmental Justice. Currently, she is the Senior Climate Justice and Health Scientist at the Union of Concerned Scientists (UCS). In that position, she works at the intersection of public health, environmental justice and climate change and leads the work on methods for accessing and documenting the health impacts of climate change on communities of color and other traditionally disenfranchised groups. She works with environmental justice communities to identify priority health concerns related to climate change and other environmental assaults and evaluate climate and energy policy approaches for their ability to effectively address climate change and benefit underserved communities. Dr. Hollis has expertise in environmental justice, toxicology, public health, environmental law, and risk assessment. Her work focuses on the intersection of public health, environmental justice and climate science, diversity, equity, inclusion and justice (DEIJ), community science and environmental health. She has presented at more than 20 meetings, authored more than 20 blogposts, written a number of articles and been featured in numerous articles for her work. Dr. Hollis is an Associate Editor and reviewer for Environmental Justice journal, a member of the EPA Clean Air Act Advisory Council (CAAAC), a past member of the Negotiated Rulemaking Committee: Chemical Data Reporting Requirements for Inorganic Byproducts, a member of the Lancet Countdown U.S. Brief Working group, an Expert Reviewer for the Government and Expert Review of the First Order Draft (FOD) of the WGII contribution to the Sixth Assessment Report (AR6) of the IPCC. She is a professorial lecturer at the Milken School of Public Health in the Environmental and Occupational Health Program and an adjunct professor of Law at New York University Law School where she co-teaches an Environmental Justice seminar. She is an invited speaker



this summer for the U.S. Global Change Research Program's (USGCRP) Sustained Assessment Working Group (SAWG). SAWG is a federal effort to lead the USGCRP sustained assessment process, with particular focus on the National Climate Assessment (NCA). Dr. Hollis is on the Steering Committee of the National Black Environmental Justice Network (NBEJN), is a member of the American Public Health Association (APHA) and its Environment Section and Environmental Justice Subcommittee, Special Advisor to the Center for Disease Control and Prevention's National Environmental Health Partnership Council (NEHPC), NEHPC Steering committee member, co-chair of NEHPC's Environmental Justice/Health Equity Workgroup and its Communication Workgroup. She is also a member of numerous other committees, including the US EPA Clean Air Act Advisory Committee, the Endangered Species Coalition Board, the National Academies of Science, Engineering and Medicine (NASEM)'s Deep Decarbonization Committee, and the Title VI Alliance.

Tisha Joseph Holmes is an Assistant Professor in the Department of Urban and Regional Planning at Florida State University. Her research examines planning and public health efforts to address the impacts of climate change on vulnerable populations. Holmes' research on sea level rise adaptation planning in Florida has been funded by the Florida Department of Environmental Protection and Leroy Collins Institute. Her participatory action research on household impacts, responses and post-disaster recovery actions in the Florida Panhandle Region is supported by the UF-FSU Clinical and Translational Science Awards Program. Dr. Holmes is a co-PI for the CDC's Climate Ready States and Cities Initiative Building Resilience Against Climate Effects (BRACE) Program in Florida and is a member of the APHA Center for Climate, Health and Equity Advisory Board. She teaches courses on climate change and coastal planning, community engagement and plan-making. Dr. Holmes earned a PhD in Urban and Regional Planning from UCLA, a Master's degree from Columbia University, and Bachelor's degree from Williams College.

Philip R.S. Johnson is Senior Director of The Heinz Endowments' Environment & Health Program, which is part of the foundation's sustainability team and focuses on clean economy and environmental and public health goals. He currently manages a grants portfolio and community initiatives that focus on environmental systems (including air and water), environmental health, susceptible populations and at-risk communities, energy impacts and alternative energy, green infrastructure, community resilience, and climate change. Before joining the Endowments, Dr. Johnson worked for government agencies and nonprofits in fisheries and ecological restoration, public health, and environmental science. He is chair emeritus of the Health & Environmental Funders Network and serves on the board of the Environmental Grantmakers Association and the steering committee of the Environmental Health Matters Initiative at the The National Academies of Sciences, Engineering, and Medicine. Dr. Johnson received his MPH in environmental health, MS in environmental science, and PhD in risk analysis and management from Yale University.

Rebecca E. Morss is a Senior Scientist at the National Center for Atmospheric Research, where she is also Deputy Director of the Mesoscale and Microscale Meteorology Laboratory. She is an expert in weather forecasting systems and risk communication, with an emphasis on high-impact weather including hurricanes, floods, and tornadoes. She has more than twenty years of experience in developing research programs, leading projects, and building teams that integrate knowledge and methods across fields to address problems that cross disciplinary and science-society boundaries. Her current research foci include



the communication and interpretation of weather-related risks, the use of weather and climate information in decision making, and weather hazard prediction and predictability. Dr. Morss received a B.A. in chemistry from the University of Chicago (1993) and a Ph.D. in atmospheric science from the Massachusetts Institute of Technology (1999). She has served in multiple national and international leadership roles, including contributing to National Academies activities on the Keck Futures Initiative Steering Committee on Ecosystem Services, the Committee on Progress and Priorities of U.S. Weather Research and Research-to-Operations Activities, the Committee on Estimating and Communicating Uncertainty in Weather and Climate Forecasts, and the Organizing Committee for the First Indo-U.S. Frontiers of Engineering Symposium.

Bakeyah S. Nelson, Ph.D. is Global Initiatives Director of Climate Imperative, an Energy Innovation project to cut carbon emissions at the speed and scale needed to avoid the worst impacts of climate change. Dr. Nelson has a diverse background in public health and public policy and has worked to reduce health inequities in Houston communities for 15 years. She previously served as the Executive Director of Air Alliance Houston, a research-based nonprofit organization working to reduce the public health impacts of air pollution and advance environmental justice in the Houston Region. Before that, she served in the Office of Policy and Planning for Harris County Public Health, where she was responsible for monitoring community health status, as well as planning and implementing community health initiatives to improve health equity. Dr. Nelson is the recipient of numerous awards and honors, and was named the 2020 Texas Energy Summit's Clean Air Champion of the Year in 2020. In 2019, she was selected as one of the Aspen Institute's Health Scholars for the Aspen Ideas Festival, and is a Senior Fellow of Class XLVI of the American Leadership Forum. In 2018, Dr. Nelson was honored as one of the Texas Organizing Project's Community Champions. She was a 2012 National Association of County & City Health Officials (NACCHO) Model Practice Award Recipient for her environmental equity work with a local Houston community to improve and advance environmental justice. Dr. Nelson currently serves on a number of committees including the Hive Fund Participatory Working Group, the Advisory Committee for the Environmental Integrity Project's Center for Applied Environmental Science, the Advisory Board for the Gulf Coast Center for Precision Health, and on the board of the National Recreation Foundation. She is also one of the founding members of the New Giving Collective, a giving circle established in 2017 to serve as a vehicle to support and respond to the needs of the Black community. Dr. Nelson earned her B.A. in psychology and an M.A. in applied sociology from the University of Maryland, Baltimore County, and a Ph.D. in public policy also from the University of Maryland, Baltimore County.

Linda Rudolph serves as Senior Advisor on Climate, Health, and Equity for the Public Health Institute and for the Medical Society Consortium on Climate and Health. She previously worked as Director for the Center for Climate Change and Health at the Public Health Institute, Deputy Director for Chronic Disease Prevention and Health Promotion in the California Department of Public Health, Health Officer/Public Health Director for the City of Berkeley, and Chief Medical Officer for Medi-Cal managed care. Linda was the founding chair of the California Health in All Policies Task Force. She serves on the Board of Physicians for Social Responsibility and the Advisory Committee for the Bay Area Air Quality Management District.



Peggy M. Shepard is co-founder and executive director of WE ACT for Environmental Justice and has a long history of organizing and engaging Northern Manhattan residents in community-based planning and campaigns to address environmental protection and environmental health policy locally and nationally. She has successfully combined grassroots organizing, environmental advocacy, environmental health community-based participatory research, and environmental and climate policy to become a national leader in advancing the perspective of environmental justice in urban communities. A graduate of Howard University in 1967, majoring in English, she has been named co-chair of the White House Environmental Justice Advisory Council, and was the first female chair of the National Environmental Justice Advisory Council to the U.S. Environmental Protection Agency. She also serves on the Executive Committee of the National Black Environmental Justice Network and the Board of Advisors of the Columbia Mailman School of Public Health. Her work has received broad recognition: the Jane Jacobs Medal from the Rockefeller Foundation for Lifetime Achievement, the 10th Annual Heinz Award For the Environment, the Dean's Distinguished Service Award from the Columbia Mailman School of Public Health, and Honorary Doctorates from Smith College and Lawrence University. With her partners at Mailman School of Public Health she has co-authored 6 papers published in EHP and APHA. She has served on National Academies panels that published *America's Climate Choices*; *Ethical Considerations for Research on Housing-Related Health Hazards Involving Children*; and participated in the NAM Culture of Health Program.

Sacoby M. Wilson is an Associate Professor with the Maryland Institute for Applied Environmental Health and Department of Epidemiology and Biostatistics in the University of Maryland, College Park School of Public Health. Dr. Wilson has 20 years of experience as an environmental health scientist in the areas of exposure science, environmental justice, environmental health disparities, and community-engaged research, including crowd science and community-based participatory research, water quality analysis, air pollution studies, the built environment, industrial animal production, climate change, community resiliency, and sustainability. Dr. Wilson directs the Community Engagement, Environmental Justice and Health (CEEJH) laboratory, which provides technical assistance and research support to communities fighting against environmental injustice and environmental health disparities in the DMV region and across the nation. He has worked on environmental justice issues, including environmental racism, with community-based organizations through community-university environmental health and justice partnerships in South Carolina and North Carolina, including the Low-Country Alliance for Model Communities (LAMC), in North Charleston, South Carolina; the West End Revitalization Association (WERA) in Mebane, NC; and the Graniteville Community Coalition (GCC) in Graniteville, SC. Dr. Wilson received his B.S. degree in Biology/Ecotoxicology with a minor in Environmental Science from Alabama Agricultural and Mechanical University, an M.S. degree in Environmental Health from University of North Carolina-Chapel Hill, and his Ph.D. in Environmental Sciences and Engineering from University of North Carolina-Chapel Hill.