

Speaker Bios

H. Christopher Frey, Ph.D.

Chris Frey is the Assistant Administrator for Research and Development effective May 2022. He also serves as the Agency Science Advisor. Before his confirmation, he served ORD as the Deputy Assistant Administrator for Science Policy.

Prior to joining EPA, Dr. Frey was the Glenn E. and Phyllis J. Futrell Distinguished University Professor at North Carolina State University, where he served on the faculty since 1994. His research includes measurement and modeling of human exposure to air pollution, measurement and modeling of vehicle emissions, and applications of probabilistic and sensitivity analysis methods to emissions estimation, risk assessment, and technology assessment.

Dr. Frey was an AAAS/EPA Environmental Science and Engineering Fellow in 1992. He served as exposure modeling advisor in ORD's National Exposure Research Laboratory from 2006 to 2007. He was a member of the EPA FIFRA Scientific Advisory Panel (2004 to 2006), a member of the EPA Clean Air Scientific Advisory Committee (CASAC) (2008 to 2012), chair of CASAC (2012 to 2015), and a member of the EPA Science Advisory Board (2012 to 2018). He was a member of the CASAC Particulate Matter Review Panel that was dismissed in 2018: under his leadership, the panel reconvened as the Independent Particulate Matter Review Panel. He was President of the Society for Risk Analysis in 2006. Dr. Frey has a B.S. in mechanical engineering from the University of Virginia, an M.E. in mechanical engineering from Carnegie Mellon University, and a Ph.D. in engineering and public policy from Carnegie Mellon.

Maureen Gwinn, Ph.D. DABT

Maureen Gwinn is the Principal Deputy Assistant Administrator for Research and Development. She also serves as EPA's Chief Scientist.

Dr. Gwinn previously served as the National Program Director for the Sustainable and Healthy Communities Research Program in the Immediate Office in ORD. In this role she led the development of a coordinated Sustainable and Healthy Communities research program, ensuring that ORD's research products and services effectively serve the needs of EPA program offices, regions, and external stakeholders. Dr. Gwinn also served as the lead program director, coordinating across ORD's six national research programs to increase consistency and coordinate partner engagement.

Before taking on her various roles in the ORD Immediate Office, Dr. Gwinn served as the Director of the Biomolecular and Computational Toxicology Division. In that position, she focused on the translation of research designed to establish scientific confidence in new approach methods and demonstrate their application to regulatory decisions. In prior roles at the agency, she contributed to multiple human health hazard assessments in support of the Integrated Risk Information System Program and worked on a wide variety of important initiatives including the Public Access Data Plan for EPA.

Dr. Gwinn earned a B.S. in Biology from Bates College. She earned both an M.S. in Oral Sciences and a Ph.D. in Oral Biology from State College of New York at Buffalo School of Dental Medicine.

Charles Lee

Charles Lee is widely recognized as a true environmental justice pioneer and a founder of the environmental justice movement in the United State. He was the principal author of the landmark 1987 report, *Toxic Wastes and Race in the United States*, and helped to spearhead the emergence of federal policy on environmental justice, including the establishment of EPA's Office of Environmental Equity/Justice, the National Environmental Justice Advisory Council, and Executive Order 12898. Mr. Lee is currently the Senior Policy Advisor for Environmental Justice at EPA's Office of Environmental Justice and External Civil Rights, and has served in multiple capacities, including as director of EPA's Office of Environmental Justice. He has served on the NEJAC as a charter member, the National Academy of Science/Institute of Medicine Committee on Environmental Justice, and numerous other panels. Mr. Lee has authored numerous papers, reports, journals, and articles on environmental justice. He has received numerous awards for his contributions to advancing environmental justice and bettering the lives of communities overburdened by pollution, and his work is featured in multiple museum exhibits, include the Smithsonian Anacostia Community Museum and the EPA National Environmental Museum and Education Center.

Andrew Geller, Ph.D.

Andrew Geller is a Senior Science Advisor and Executive Lead for Environmental Justice and Lead Research in EPA's Office of Research and Development. Dr Geller has recently served as editor-in-chief of EPA's Cumulative Impacts Framework and was the primary author of EPA's Environmental Justice Research Roadmap. As Acting and Deputy Director of ORD's Sustainable and Healthy Research Program, Dr Geller incorporated EJ and multimedia assessment into ORD's research portfolio. His research includes the development of community and tribal decision support tools, the impacts of environmental exposures on older adults, and neurotoxicological assessments of the impacts of environmental exposures on visual development and function. Andrew received his undergraduate degree from the University of Pennsylvania and earned his Masters degree and PhD in Cognition and Perception Psychology at the University of Michigan. He did post-doctoral training in Neurotoxicology at the University of North Carolina at Chapel Hill's Center for Environmental Medicine and Lung Biology and with EPA through a National Research Service Award from the NIEHS.

Sarah Mazur

Sarah Mazur is the Principal Associate National Program Director for the Sustainable and Healthy Communities (SHC) Research Program in ORD. Sarah has helped lead research planning and partner engagement activities for SHC's research portfolio as well as ORD's broader cumulative impacts and EJ research. Sarah is the co-chair of the ORD Environmental Justice Council and co-led the development of ORD's report, *Cumulative Impacts: Recommendations for ORD Research*. Sarah has been a federal employee since 2006, and, in addition to ORD, she has worked in the Office of Policy and the Office of Air and Radiation. She has a BA in Biology with a concentration in Environmental Studies from Carleton College and a Master of Environmental Management and Master of Public Policy from Duke University.

Susan Julius

Susan Julius is an Assistant Center Director in EPA's Center for Public Health and Environmental Assessment. She is also a Research Area Coordinator for the Community Driven Solutions area within the Sustainable and Healthy Communities Research Program in the Office of Research and Development (ORD). Susan co-lead the development of ORD's paper on Cumulative Impacts: Recommendations for ORD Research. Susan's past research focused on resilience in the context of urban environments and climate change. She served as Convening Lead Author for the U.S. Cities and Climate Change: Urban, Infrastructure, and Vulnerability Issues in support of the 2014 U.S. National Climate Assessment and as Convening Lead Author on the 2018 U.S. National Climate Assessment for the chapter on Built Environment, Urban Systems, and Cities.

Sean J. Paul

Sean Paul is the Special Advisor to the Assistant Administrator for Research and Development. Sean sat on the steering committee in charge of developing EPA's report on *Cumulative Impacts: Recommendations for ORD Research*. Prior to his work in support of the Assistant Administrator, Sean worked in ORD's budget and policy offices where his work focused on program evaluation, science policy, research translation, and environmental compliance monitoring and enforcement. Sean has a BA in Sustainability Studies and Economics from Stony Brook University and a Master of Public Policy from Georgetown University's McCourt School of Public Policy.

Nicolle S. Tulve, Ph.D

Nicolle S. Tulve, Ph.D., is an internationally recognized expert on young children's exposures to chemical and non-chemical stressors found in their everyday environments and the influence these stressors have on their health and well-being. She is currently employed at the U.S. Environmental Protection Agency's Office of Research and Development (ORD), Center for Public Health and Environmental Assessment, where she has had lead responsibility for several projects that were collaborative efforts with academia, other government organizations, and in-house research projects. Dr. Tulve is the project lead for a cross-ORD project focused on exposures, health, and well-being for selected vulnerable groups, including children. Dr. Tulve published the Total Environment Framework which is an integral component of several recently funded extramural research programs. The Total Environment Framework was adapted for ORD's cumulative impacts report for which Nicolle served as the Technical Co-Lead. Nicolle received her Ph.D. in environmental engineering from Clarkson University, an M.S. in environmental health and toxicology from SUNY Albany, and a B.S. in biology from Oswego State. Immediately after graduation, Nicolle completed a post-doctoral fellowship in ORD related to children's environmental health.