

Review of EPA's Use of Title 42 Special Hiring Authority

Committee

Daniel S. Greenbaum

Chair

Daniel Greenbaum is President Emeritus of Health Effects Institute (HEI) and Visiting Professor at the Environmental Research Center of Imperial College, London. Previously as HEI President he led HEI's efforts to provide public and private decision makers — in the U.S., Asia, Europe, and Africa — with high quality, impartial, relevant, and credible science about the health effects of air pollution in order to inform air quality decisions in the developed and developing world. In this role he worked with HEI's sponsors in government and industry, its Scientific Committees and staff, and other environmental stakeholders to develop and implement the HEI Strategic Plan for Understanding the Health Effects of Air Pollution, which every five years sets HEI's course. Mr. Greenbaum has been a member of the National Academies Board of Environmental Studies and Toxicology, chair of the Committee on Anticipatory Research for EPA's Research and Development Enterprise to Inform Future Environmental Protection: The Road Ahead, and vice chair of the Committee for Air Quality Management in the United States. In addition, he served on the National Academies Committee on The Hidden Costs of Energy, the Committee on Grand Challenges for Environmental Engineering, and the Committee on Science for EPA's Future. Mr. Greenbaum also chaired the EPA's Blue Ribbon Panel on Oxygenates in Gasoline and EPA's Clean Diesel Independent Review Panel, which reviewed technology progress in implementing the 2007 Highway Diesel Rule. Mr. Greenbaum has over three decades of governmental and non-governmental experience in environmental health. Before coming to HEI, he served as Commissioner of the Massachusetts Department of Environmental Protection from 1988 to 1994, where he was responsible for the Commonwealth's response to the Clean Air Act, as well as its award-winning efforts on pollution prevention, water pollution, and solid and hazardous waste. Mr. Greenbaum holds Bachelor's and Master's degrees in City Planning from the Massachusetts Institute of Technology.

Tara S. Behrend

Member

Dr. Tara Behrend is a John Richard Butler II Endowed Professor at Michigan State University. She is a former Program Director for the National Science Foundation, with responsibility for the Science of Organizations and Future of Work at the Human-Technology Frontier programs. Dr. Behrend is President (2023) of the Society for Industrial and Organizational Psychology. Her research is broadly interested in the ways that technology can be used to support human flourishing in the workplace and beyond. She has published work on the topics of STEM career development, training, surveillance, and assessment. Dr. Behrend is a fellow of the Society for Industrial and Organizational Psychology and the Association for Psychological Science. She holds a Ph.D. in Psychology from North Carolina State University.

Linda S. Birnbaum

Member

Linda S. Birnbaum, Ph.D., D.A.B.T., A.T.S., is the former Director of the National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health, and the National Toxicology Program (NTP). After retirement, she was granted scientist emeritus status and still maintains a laboratory. As a board-certified toxicologist, Birnbaum served as a federal scientist for 40 years. Prior to her appointment as NIEHS and NTP Director in 2009, she spent 19 years at the U.S. Environmental Protection Agency (EPA), where she directed the largest division focusing on environmental health research. Birnbaum has received many awards and recognitions. In 2016, she was awarded the North Carolina Award in Science. She was elected to the Institute of Medicine of the National Academies, one of the highest honors in the fields of medicine and health. She was also elected to the Collegium Ramazzini, an independent, international academy comprised of internationally renowned experts in the fields of occupational and environmental health and received an honorary Doctor of Science from the University of Rochester and a Distinguished Alumna Award from the University of Illinois. She has also received Honorary Doctorates from Ben-Gurion University, Israel, and Amity University, India; the Surgeon General's Medallion 2014; and 14 Scientific and Technological Achievement Awards, which reflect the recommendations of EPA's external Science Advisory Board, for specific publications. Birnbaum is an active member of the scientific community. She was vice president of the International Union of Toxicology, the umbrella organization for toxicology societies in more than 50 countries, and former president of the Society of Toxicology, the largest professional organization of toxicologists in the world. She is the author of more than 1000 peer-reviewed publications, book chapters, abstracts, and reports. Birnbaum's own research focuses on the pharmacokinetic behavior of environmental chemicals, mechanisms of action of toxicants including endocrine disruption, and linking of real-world exposures to health effects. She is an adjunct professor in the Gillings School of Global Public Health, the Curriculum in Toxicology, and the Department of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill, as well as in the Integrated Toxicology and Environmental Health Program at Duke University where she is also a Scholar in Residence. A native of New Jersey, Birnbaum received her M.S. and Ph.D. in microbiology from the University of Illinois at Urbana-Champaign.

Thomas A. Burke

Member

Thomas A. Burke, PhD, MPH, is Professor Emeritus at Johns Hopkins University Bloomberg School of Public Health. He is also Director Emeritus of the Johns Hopkins Risk Sciences and Public Policy Institute. Dr. Burke was nominated by President Barack Obama to serve as EPA Assistant Administrator for the Office of Research and Development. From January 2015 until January 2017 Dr. Burke was the EPA Science Advisor and Deputy Assistant Administrator for Research and Development. His research interests include environmental epidemiology and surveillance, population exposures to environmental pollutants, risk assessment and communication, and application of epidemiology and health risk assessment to public policy. Before joining the University faculty, Dr. Burke was Deputy Commissioner of Health for the State of New Jersey and Director of Science and Research for the New Jersey Department of Environmental Protection. He was Chair of the National Academy of Sciences Committee on Improving Risk Analysis that produced the report Science and Decisions, and currently served as Chair of the Environmental Health Matters Initiative of the National Academies of Sciences, Engineering and Medicine. Dr. Burke received his BS from St. Peter's University, his MPH from the University of Texas and his PhD in epidemiology from the University of Pennsylvania

G. A. Burton, Jr.

Member

Dr. Burton is a professor in the School for Environment and Sustainability and the Department of Earth & Environmental Sciences. He also is Director of the Institute of Global Change Biology, holding an Honorary Doctorate from the University of Roskilde (Denmark), and both a Concurrent Professor at Nanjing University and Honorary Professor at the State Key Laboratory of Environmental Criteria and Risk Assessment in Beijing China. His research has taken him to all seven continents with Visiting Scientist positions in China, Denmark, Italy, New Zealand and Portugal, dealing with sediment and storm water toxicant bioavailability, improving causality linkages of risk at multiple trophic levels, and ranking stressor importance. While at the University of Michigan, he also served as director of the Water Center and NOAA Cooperative Institute of Limnology and Ecosystems Research. He was a Distinguished Faculty Fellow of the Graham Sustainability Institute and the Brage Golding Distinguished Professor of Research. Dr. Burton is a member of the executive committee of EPA's Board of Scientific Counselors. He is the editor-in-chief of Environmental Toxicology & Chemistry and a fellow and past President of the Society of Environmental Toxicology & Chemistry, serving on numerous national and international panels with over 200 peer-reviewed publications. In 2006-2007 he served on the National Research Council Committee on Evaluation of the Effectiveness of Dredging at Contaminated Sediment Sites. In January 2020, he spoke at the National Academies symposium on Emerging Technologies to Advance Research and Decisions on the Environmental Health Effects of Microplastics. Dr. Burton received his B.S. in biology and chemistry from Ouachita Baptist University, his M.S. in microbiology from Auburn University, and his Ph.D. in aquatic toxicology from the University of Texas, Dallas.

Edan T. Dionne

Member

Ms. Dionne is Vice President of Environmental, Energy and Chemical Management Programs with IBM's Corporate Environmental Affairs. She leads a team that is responsible for defining IBM's strategy in those areas, as well as IBM's global environmental management system and internal requirements and goals. The corporate staff is responsible for driving performance consistent with environmental leadership across the company. She has over 35 years of experience as an environmental professional. She has direct working knowledge and experience in each of the areas she now leads. She regularly works with peers in industry, eNGOs and governments toward advancing environmental sustainability goals. Ms. Dionne received her M.S. degree in chemical engineering from Michigan State University.

Anne Fairbrother

Member

Anne Fairbrother has more than 30 years of experience in ecotoxicology, wildlife toxicology, contaminated site assessment, and regulatory science. Dr. Fairbrother served as President of the Society of Environmental Toxicology and Chemistry (SETAC), the American Association of Wildlife Veterinarians, and the Wildlife Disease Association (WDA). She was a Senior Scientist at EPA and Principal at several consulting firms, including Exponent. She is the recipient of the SETAC Founders Award (2014), the WDA Distinguished Service Award (2002), and a gold medal for Commendable Service from EPA. Dr. Fairbrother is a former BEST member and has served on multiple National Academy committees.

Tissa H. Illangasekare

Member

Dr. Tissa H. Illangasekare's primary area of research is in environmental science, environmental modeling, hydrology, and spatial modeling. Dr. Illangasekare is an Amax Distinguished Chair of Environmental Sciences, Professor of Civil and Environmental Engineering, and Director for the Center for the Experimental Study of Subsurface Environmental Processes at the Colorado School of Mines. His research utilizes experimental, numerical, and theoretical modeling of complex environmental systems to determine their interaction with larger scale environmental systems. This can include, numerical modeling of saturated and unsaturated flow in soils, surface-subsurface interaction, arid-zone hydrology, integrated hydrologic modeling, flow in subfreezing snow, transport of dissolved and multiphase wastes, wireless sensor networking for environmental monitoring and intelligent remediation and environmental impacts of energy development. Dr. Illangasekare has served on several NRC committees and was a board member for the Nuclear and Radiation Study Board until 2020. He is a Fellow of American Geophysical Union (AGU), Fellow of American Association for Advancement of Science (AAAS), Fellow of the Soil Science Society of America (SSA) and a Fellow of American Society of Civil Engineers (ASCE). He is a registered Professional Engineer, registered Professional Hydrologist, Board Certified Environmental Engineer with the American Academy of Environmental Engineers, and a Diplomat of the American Academy of Water Resources Engineers. He is currently serving as editor of AGU Advances and AGU's Perspectives of Earth and Planetary Scientists. He was a past editor Water Resources Research and co-editor of Vadose Zone Journal. Dr. Illangasekare received a Ph.D. in Civil Engineering from Colorado State University, a M.E. from the Asian Institute of Technology, and a B.S. from University of Ceylon, Sri Lanka. He also received an Honorary Doctorate in Science and Technology from Uppsala University, Sweden.

Willie E. May

Member

Dr. Willie E. May serves as Vice President for Research and Economic Development at Morgan State University. Previously Dr. May served as Director of Major Research and Training Initiatives for the College of Computer, Mathematical and the Natural Sciences, University of Maryland College Park and Director of the National Institute of Standards and Technology (NIST) and Under Secretary of Commerce for Standards and Technology.

His personal research activities were focused in the areas of trace organic analytical chemistry and physico-chemical properties of organic compounds, where his work is described in more than 90 peer-reviewed technical publications. He has given more than 250 invited lectures at Conferences and Symposia around the world.

Dr. May currently serves on the Board of Directors for Consumer Reports, the NASA Advisory Council's Science Committee and President-Elect of AAAS. He earned his B.S in Chemistry from Knoxville College and his Ph. D. in Analytical Chemistry from the University of Maryland, College Park. His numerous honors and awards include: Honorary Doctorate's from Wake Forrest University and the University of Alabama Huntsville; the American Chemical Society's Distinguished Service in the Advancement of Analytical Chemistry Award; the American Chemical Society's Public Service Award; the Department of Commerce's Gold, Silver and Bronze Medal Awards; and the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers' Percy Julian Award; in 2015, recognized as the Federal Government's "Top Chemist" by Chemical and Engineering News Magazine and in 2016 recognized by the Federal Laboratory Consortium as "Laboratory Director of the Year".

Paula J. Olsiewski

Member

Dr. Olsiewski is a contributing scholar at the Johns Hopkins Center for Health Security, where she is leading a team to develop pandemic policy for indoor air. She is a pioneering leader in policy and scientific research programs in the microbiology and chemistry of indoor environments. Prior to joining the Center, Dr. Olsiewski spent 2 decades at the Alfred P. Sloan Foundation, where she led innovative and multidisciplinary programs that inspired, accelerated, and produced lasting impact. Her expertise in partnering with academic, governmental, and for-profit stakeholders fostered innovation and built research capacity through the creation of diverse stakeholder networks. Dr. Olsiewski is recognized as a leading expert in biosecurity and is a member of the Council on Foreign Relations. She is chair of the US Environmental Protection Agency (EPA) Homeland Security Research Subcommittee and is a member of the EPA Board of Scientific Counselors Executive Committee. She is a fellow of the American Association for the Advancement of Science in chemistry. She was a member of the National Academies Committee on Advances in Technology and the Prevention of Their Application to Next Generation Biowarfare Threats, which produced the 2006 report "Globalization, Biosecurity, and the Future of Life Sciences." Dr. Olsiewski received her B.S. in chemistry from Yale University and her Ph.D. in biological chemistry from the Massachusetts Institute of Technology.

C. Matthew Snipp

Member

C. Matthew Snipp is Burnet C. and Milfred Finley Wohlford professor of sociology at Stanford University. At Stanford, he currently serves as director of the Secure Data Center, deputy director of the Institute for Research in the Social Sciences, and chair of the Native American Studies program. He has written extensively on American Indians, focusing specifically on the interaction of American Indians and the U.S. census. Dr. Snipp additionally is the Vice Provost for Faculty Development, Diversity and Engagement for Stanford. He currently serves on the CNSTAT Standing Committee on Reengineering Census Operations and the Standing Committee for the American Opportunity Study-Phase 1. Previously, he served as a member of the NAS Panel to Review the 2010 Census, the Panel on Residence Rules in the Decennial Census, the Panel on the Research on Future Census Methods, and as co-chair of the Steering Committee for a Workshop on Developing a New National Survey on Social Mobility. He has also served on the Census Bureau's Technical Advisory Committee on Racial and Ethnic Statistics and the Native American Population Advisory Committee. He is the former director of the Center for Comparative Studies of Race and Ethnicity.

Natalie Armstrong

Staff Officer

Raymond A. Wassel

Staff Officer