



EBC Climate Change and Air Webinar Air Permitting and Environmental Justice – What You Need to Know

Friday, April 29, 2022

Program Chairs

Kelley Begin, Air Practice Leader | Senior Principal, Woodard & Curran
Lynne Santos, P.E., Manager of Consulting Services, Boston, Trinity Consultants

AGENDA

- 9:00 a.m. Welcome:** Jackson Bailey, Director of Programs & Membership
Environmental Business Council of New England
- Program Introduction**
- Lynne Santos, P.E., Program Co-Chair
Manager of Consulting Services, Boston, Trinity Consultants
- 9:20 a.m. Environmental Justice Considerations for Permitting**
- Brian Burdorf, Director, Operations, Trinity Consultants
- 9:45 a.m. MassDEP Cumulative Impact Analysis for Air Permitting**
- Glenn Keith, Director, Division of Air and Climate Programs
Department of Environmental Protection (DEP)
Commonwealth of Massachusetts
- 10:10 a.m. Networking Opportunity**
- 10:25 a.m. Break**
- 10:35 a.m. The Holy Grail: EPA’s Office of Research and Development Efforts to Enhance Cumulative Impact Assessment**
- Christopher Frey, Deputy Assistant Administrator, Science Policy
Office of Research and Development
U.S. Environmental Protection Agency (EPA)

11:00 a.m. Moderated Discussion

Moderator: Kelley Begin, Program Co-Chair

Air Practice Leader | Senior Principal, Woodard & Curran, Inc.

Panel Members:

- Brian Burdorf, Trinity Consultants
- Glenn Keith, MassDEP
- Susan Julius, Assistant Center Director
Center for Public Health & Environmental Assessment, U.S. EPA
- Sarah Mazur, Principal Associate National Program Director (Acting)
Sustainable and Healthy Communities Research Program, U.S. EPA
- Dr. Nicolle Tolve, Research Physical Scientist, U.S. EPA

11:30 a.m. Adjourn

PROGRAM CHAIRS

Kelley Begin, Air Practice Leader | Senior Principal

Woodard & Curran, Inc.

40 Shattuck Road, Suite 110, Andover, MA 01810

978-482-7886 | kbegin@woodardcurran.com

Kelley Begin, PE serves as the Air Practice Leader for Woodard & Curran. Kelley has been with Woodard & Curran since 2000 and has over 28 years of experience in the air quality field. Her particular focus is on all aspects of air permitting and compliance. Kelley has experience in many industries including biotech, metals recycling, biosolids incineration, and power generation as well as with municipal and institutional facilities. Before joining Woodard & Curran, Kelley worked for the San Diego Air Pollution Control District, Vermont Department of Environmental Conservation, and the Massachusetts Executive Office of Energy and Environmental Affairs. Kelley holds a B.S. degree in Environmental Engineering from the University of Vermont and an M.S. degree in Environmental Engineering from Tufts University.

Lynne Santos, P.E., Manager of Consulting Services (Boston, MA)

Trinity Consultants

153 Cordaville Rd., Ste 120, Southborough, MA 01772

P 508-449-0102 | M 978-376-1522 | lsantos@trinityconsultants.com

Lynne Santos is the Manager of Consulting Services for Trinity's Boston, Massachusetts office, which serves all six states in New England. Lynne has 28 years of experience in environmental consulting. She specializes in air dispersion modeling, air permitting, air regulatory audits, air emissions inventories, greenhouse gas reporting and auditing, and Best Available Control Technology analyses. Ms. Santos has specialized expertise in the pharmaceutical and biotechnology industry assisting numerous clients in the Boston area. Prior to joining Trinity, Lynne worked for other environmental consulting firms (AECOM and ENVIRON) and as an independent consultant.

Lynne holds a B.S. degree in Chemical Environmental Engineering from the University of New Hampshire and an M.S. degree in Chemical Engineering from the University of Kentucky. She is a licensed Professional Engineer in all six New England states.

SPEAKERS

Brian Burdorf, Director, Operations

Trinity Consultants

12700 Park Central Drive, Suite 2100, Dallas, TX 75251

972-661-8100 | bburdorf@trinityconsultants.com

Brian Burdorf is Trinity Consultants' Environmental Justice (EJ) Practice Leader. He also serves as an Operations Director in Trinity's Gulf Coast Region. Brian has 31 years of air quality environmental permitting and compliance experience supporting a broad range of industrial and commercial operations located throughout the United States. Brian has provided project-specific EJ assistance and EJ advisory support and training to corporations and industry trade groups. He has presented on EJ to over 1,000 industry professionals. Brian also instructs Trinity's course titled, Environmental Justice – Policies, Tools, and Best Practices. Brian holds a B.S. in Mechanical Engineering from Texas A&M University and an M.B.A. from the Kellogg Graduate School of Management at Northwestern University.

Christopher Frey, Deputy Assistant Administrator, Science Policy

Office of Research and Development

U.S. Environmental Protection Agency

1300 Pennsylvania Ave, Washington DC, 20004

202-941-6038 | frey.christopher@epa.gov

Dr. Chris Frey is the Deputy Assistant Administrator for Science Policy in the Office of Research and Development as an appointee of the Biden/Harris administration. 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 has a B.S. in mechanical engineering from the University of Virginia, a master of engineering in mechanical engineering from Carnegie Mellon University, and Ph.D. in engineering and public policy from Carnegie Mellon.

Susan Julius, Assistant Center Director

Center for Public Health & Environmental Assessment

U.S. Environmental Protection Agency

1200 Pennsylvania Ave, NW, Washington DC, 20460

202-564-7021 | julius.susan@epa.gov

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-led 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 an author on the 2008 U.S. National Climate Assessment (NCA), and as Convening Lead Author for the U.S. Cities and Climate Change: Urban, Infrastructure, and Vulnerability Issues in

support of the 2014 NCA. Susan also served as Convening Lead Author on the 2018 NCA for the chapter on Built Environment, Urban Systems, and Cities.

Glenn Keith, Director, Division of Air and Climate Programs

Department of Environmental Protection
Commonwealth of Massachusetts
One Winter Street, 7th Floor, Boston, MA
617-292-5874 | glenn.keith@mass.gov

Glenn Keith is the Director of the Division of Air and Climate Programs in MassDEP's Bureau of Air and Waste. Glenn manages a wide range of air quality and climate mitigation programs including air quality regulation and policy development, implementation of stationary, area, and mobile source programs, the ambient air monitoring network, federal air quality grants, and reporting programs. His previous work in the Bureau included managing the Toxics Use Reduction Act program and overseeing solid waste planning. Glenn joined MassDEP in 1989 and spent his first 10 years in the Bureau of Waste Site Cleanup developing policies and programs to implement the 21E regulations.

Sarah Mazur, Principal Associate National Program Director (Acting)

Sustainable and Healthy Communities Research Program
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW, Washington DC, 20460
202-564-2678 | Mazur.Sarah@epa.gov

Sarah Mazur is the Acting Principal Associate National Program Director (NPD) for the Sustainable and Healthy Communities (SHC) Research Program in ORD. In this role, Sarah has helped lead planning and partner engagement activities for SHC. Previously, as an Associate NPD, Sarah oversaw SHC's Healthy and Resilient Communities Topic Area, which includes community resilience, ecosystem services, and public health research, and she was the Program Manager for the Regional Sustainability and Environmental Science Research Program (RESES), which annually funds joint Regional-ORD research projects that collaborate with local community stakeholders to help address community environmental challenges. Sarah is also the co-chair of the ORD Environmental Justice Council and co-led the development of ORD's white paper, *Cumulative Impacts: Recommendations for ORD Research*.

Dr. Nicolle Tolve, Research Physical Scientist

U.S. Environmental Protection Agency
109 T.W. Alexander Drive, RTP, NC 27711
919-541-1077 | tolve.nicolle@epa.gov

Nicolle S. Tolve, 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, Center for Public Health and Environmental Assessment, where she is the project lead for a cross-ORD project focused on exposures, health, and well-being for selected vulnerable groups, including children. Dr. Tolve published the Total Environment Framework which is an integral component of several recently funded extramural research programs. Additionally, the Total Environment Framework was adapted for ORD's cumulative impacts white paper for which Nicolle served as the Technical Co-Lead.