

**Timothy J. Buckley, Ph.D., Director of Exposure Methods & Measurements Division, in EPA's National Exposure Research Laboratory**

Exposure Methods and Measurements Division

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**Area of Expertise:** Tim Buckley, Ph.D., is the director of the Exposure Methods & Measurements Division within the National Exposure Research Laboratory. Dr. Buckley assumed this position in September of 2012 after 16 years of research and teaching experience within academia (Johns Hopkins and Ohio State Schools of Public Health). His work is broad ranging including the development and application of exposure methods, measurements, and models to chemical, physical, and biological stressors within community and occupational settings. Exposure is treated comprehensively considering all relevant routes and pathways and typically includes biomonitoring to further inform exposure. These studies have been applied in the context of health studies to evaluate environmental determinants of cancer, neurotoxic, and respiratory risk, as well as children's asthma. His work is strongly tied to the environmental interests and concerns of communities and has led the identification of environmental justice issues. His research has led to numerous funded grants and publication of more than 70 peer-reviewed journal articles.

**Select Publications:**

Kariisa M; Foraker R; Pennell M; Buckley TJ; Diaz P; Wilkins JR (2014): Short and Long-term Effects of Ambient Ozone and Fine Particulate Matter on the Respiratory Health of COPD Subjects. *Archives of Environmental & Occupational Health*. 2015;70(1):56-62. doi: 10.1080/19338244.2014.932753.

Marion JW; Lee CH; Lee CS; Wang Q; Lemeshow S; Buckley TJ; Saif LJ; and Lee J (2014): Integrating bacterial and viral water quality assessment to predict swimming-associated illness at a freshwater beach: a cohort study. *PLoS ONE*.

Kariisa M; Foraker R; Buckley TJ; Pennell M; Diaz P; Wilkins JR (2014): Differential Ambient Air Pollution Exposure in a COPD Cohort: The Role of Area-Level Socioeconomic Factors. *Environmental Justice*. 7, 18-26.

Breen MS; Long TC; Schultz BD; Crooks J; Breen M; Langstaff JE; Isaacs KK; Tan C; Williams RW; Cao Y; Devlin RB; Batterman SA; Buckley TJ (2014): GPS-based Microenvironment Tracker (MicroTrac) Model to Estimate Time-Location of Individuals for Air Pollution Exposure Assessments: Model Evaluation in Central North Carolina. *Journal of Exposure Science and Environmental Epidemiology*. ) 24, 412–420; doi:10.1038/jes.2014.13

Goldsmith MR; Grulke C; Brooks RD; Transue T; Tan YM; Frame A; Egeghy PP; Edwards R; Chang DT; Tornero-Velez R; Isaacs K; Wang A; Johnson J; Holm K; Reich M; Mitchell J;

Vallero D; Phillips L; Phillips M; Wambaugh JF; Judson RS; Buckley TJ; Dary CC; (2013): Development of a Consumer Product Ingredient Database for Chemical Exposure Screening and Prioritization. *Food and Chemical Toxicology*

Clark BR, Burkett MA, Andridge RR, Buckley TJ (2013): Evidence of High Rates of Undiagnosed Asthma in Central Ohio Elementary School Children. *Journal of School Health*. 83(12): 896-906.

View more research publications by [Tim Buckley](#).

### **Education:**

- Ph.D., Environmental Science, Rutgers University /Robert Wood Johnson Medical School, Piscataway, NJ, 1991
- M.H.S., Industrial Hygiene, Johns Hopkins University, Baltimore, MD, 1986
- B.S., Chemistry, St. John's University, Collegeville, MN, 1981
- Board Certified: Certified Industrial Hygienist - Comprehensive Practice, American Board of Industrial Hygiene, 1997-2014

### **Professional Experience:**

- Director, Human Exposure and Atmospheric Sciences Division: 2012-present
- Associate Professor and Chair, Ohio State University, College of Public Health, Division of Environmental Health Sciences: 2005-2012
- Associate Professor, The Johns Hopkins University Bloomberg School of Public Health, Department of Environmental Health Sciences, Division of Environmental Health Engineering; joint appointment in the Department of Epidemiology; joint appointment in the Department of Oncology: 2002-2005
- Assistant Professor, The Johns Hopkins University, School of Hygiene and Public Health, Department of Environmental Health Sciences, Division of Environmental Health Engineering; joint appointment in the Department of Epidemiology: 1996-2002
- Environmental Scientist, U.S. Environmental Protection Agency, National Exposure Research Laboratory: 1991-1996