

# Timothy Watkins, Director, in EPA's National Exposure Research Laboratory

## [National Exposure Research Laboratory](#)

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**Area of Expertise:** My areas of expertise and interests include the development, evaluation, and application of field/laboratory methods and modeling tools to inform human and ecological exposure assessment. My specific area of focus is air pollution monitoring methods and modeling tools, including novel low cost sensor technologies.

### **Select Publications** ([Several links exit this site](#)):

Hindin, D., Grumbles, B., Wyeth, G., Benedict, K., Watkins, T., Aburn, Jr. G., Ulrich, M., Lang, S., Poole, K., Dunn, A., [Advanced Monitoring Technology: Opportunities and Challenges](#) EM Magazine. Air and Waste Management Association, Pittsburgh, PA, (November 2016).

Snyder, E., Tim Watkins, P. Solomon, E. Thoma, R. Williams, G. Hagler, D. Shelow, D. Hindin, Vasu Kilaru, and P. Preuss. [Changing the Paradigm of Air Pollution Monitoring](#) Environmental Science and Technology. John Wiley & Sons, Ltd., Indianapolis, IN, 47(20):11369-11914, (2013).

Williams, R., T. Watkins, and R. Long. [Low Cost Sensor Calibration Options](#) EM: Air and Waste Management Associations Magazine for Environmental Managers. Air & Waste Management Association, Pittsburgh, PA, 10-15, (2014).

Vallano, D., E. Snyder, Vasu Kilaru, E. Thoma, R. Williams, G. Hagler, and Tim Watkins. [Air Pollution Sensors: Highlights from an EPA Workshop on the Evolution and Revolution in Low-Cost Participatory Air Monitoring](#) EM Magazine. Air and Waste Management Association, Pittsburgh, PA, (December):28-33, (2012).

Watkins, T.H., L. Baxter, H.A. Ozkaynak, V. Isakov, and D. Mobley. [Novel Approaches for Estimating Human Exposure to Air Pollutants](#). Chapter 122, Douw G. Steyn & Silvia Trini Castelli (ed.), Air Pollution Modeling and its Application, XXI. Springer Netherlands, Netherlands, Series C:741 - 745, (2011).

Lioy, P.J., T.H. Watkins, and G. Allen. [Enhancing Air Pollution Exposure Assessment in the 21<sup>st</sup> Century by Measurement and Modeling](#) EM: Air and Waste Management Associations Magazine for Environmental Managers. Air & Waste Management Association, Pittsburgh, PA, (10/2009):42-45, (2009).

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

**Education:**

- M.S. in Economics, University of North Carolina at Chapel Hill
- B.A. in Economics and Mathematics, Rollins College

**Professional Experience:**

- Current Director of the National Exposure Research Laboratory (NERL) in the U.S. EPA's Office of Research and Development (ORD)
- Deputy Director of the National Exposure Research Laboratory (NERL)
- Deputy National Program Director for the Air, Climate, and Energy research program
- Acting Director of the Environmental Public Health Division in ORD's National Health and Environmental Effects Research Laboratory (NHEERL)
- Deputy Director of NERL's Human Exposure and Atmospheric Sciences Division
- Assistant Laboratory Director for Air in NERL
- EPA's Office of Air and Radiation