

**Lindsay Wichers Stanek, Ph.D., Interim Director of the Computational Exposure Division,
in EPA's National Exposure Research Laboratory**

Computational Exposure Division

[Mailing Address](#)

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Area of Expertise: I am an expert in air pollution, specifically particulate matter (PM), ozone, nitrogen oxides, sulfur oxides, and lead. My foundational expertise is with animal toxicology and was developed through my doctoral research that focused on the cardiovascular and pulmonary effects in rodents exposed to PM. Through my subsequent assessment work at the Office of Research and Development's (ORD) National Center for Environmental Assessment (NCEA) and research oversight role at the National Exposure Research Laboratory (NERL), I have developed cross-disciplinary knowledge that enables integration of scientific evidence, from atmospheric sciences to exposure to health effects.

My responsibilities have also entailed working across EPA's ORD, Program Office partners, and Regional Office partners to design and execute research that is of the greatest impact to fulfill our mission of protecting public health and the environment. My experience has resulted in numerous leadership roles within ORD, where my duties have included developing research needs, planning research, implementing and directing research, conducting marketing and outreach, and supervising and performing personnel management duties.

Select Publications:

von Lindern, I., S. Spalinger, M. Stifelman, L. Wichers Stanek, C. Bartrem. Estimating Children's Soil/Dust Ingestion Rates through Retrospective Analyses of Blood Lead Biomonitoring from the Bunker Hill Superfund Site in Idaho. *Environ. Health Perspect.* In press. <http://dx.doi.org/10.1289/ehp.1510144>.

Wei, S., C. Lee, L. Wichers, G. Li, J.S. Marron. Direction-Projection-Permutation for High Dimensional Hypothesis Tests. *J. Comp. Graph. Stat.* 25(2): 549-569, 2016.

Johns, D.O, L. Wichers Stanek, K. Walker, S. Benromdhane, B. Hubbell, M. Ross, R.B. Devlin, D.L. Costa, D.S. Greenbaum. Practical Advancement of Multipollutant Scientific and Risk Assessment Approaches for Ambient Air Pollution. *Environ. Health Perspect.* 120(9):1238-1242, 2012.

Stanek, L. Wichers, J.D. Sacks, S.J. Dutton, J-J.B. Dubois. Attributing health effects of apportioned components and sources of particulate matter: An evaluation of collective results. *Atmos. Environ.* 45(32):5655-5663, 2011.

Stanek, L. Wichers, J.S. Brown, J. Stanek, J. Gift, D.L. Costa. Air pollution toxicology – A brief review of the role of the science in shaping the current understanding of air pollution

health risk. *Toxicol. Sci.*120 Suppl 1:S8-S27, 2011.

Sacks, J.D., L. Wichers Stanek, T.J. Luben, D.O. Johns, B.J. Buckley, J.S. Brown, and M. Ross. Particulate Matter Induced Health Effects: Who's Susceptible? *Environ. Health Perspect.* 119(4):446-454, 2011.

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Education:

- Ph.D., Environmental Sciences and Engineering, School of Public Health, University of North Carolina at Chapel Hill, 2005
- M.S.P.H., Environmental Sciences and Engineering, School of Public Health, University of North Carolina at Chapel Hill, 2002
- B.S., Environmental Science, University of Idaho, 1998

Professional Experience:

- Interim Director for Computational Exposure Division; U.S. EPA, National Exposure Research Laboratory (NERL); 02/2016-present
- Assistant Laboratory Director for Air, Climate, and Energy (ACE) Research Program: U.S. EPA, National Exposure Research Laboratory (NERL); 06/2012-02/2016
- Senior Physical Scientist: U.S. EPA, National Center for Environmental Assessment; 05/2007-05/2012
- Special Assistant to the National Program Director for Clean Air Research: U.S. EPA. Office of Research and Development, Research Triangle Park, NC, 01/2010-06/2010
- ORISE Post-Doctoral Fellow: U.S. EPA, National Center for Environmental Assessment, Research Triangle Park, NC, 01/2006-05/2007
- Environmental Scientist: TerraGraphics Environmental Engineering, Inc., Moscow, ID, 05/1998-07/2000