William T. Hutzell, Physical Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division
Mailing Address

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Area of Expertise:

Select Publications:

Baker, K., M. Woody, G. Tonnesen, Bill Hutzell, H. Pye, M. Beaver, G. Pouliot, AND Tom Pierce. Contribution of regional-scale fire events to ozone and PM2.5 air quality estimated by photochemical modeling approaches. ATMOSPHERIC ENVIRONMENT. Elsevier Science Ltd, New York, NY, 140:539–554, (2016).

Pye, H., D. Luecken, K. Baker, J. Bash, Bill Hutzell, D. Schwede, L. Xu, N. Ng, B. Ayres, K. Baumann, W. Carter, E. Edgerton, J. Fry, AND P. Shepson. Aerosol from Organic Nitrogen in the Southeast United States. CMAS Conference, Chapel Hill, NC, October 05 - 07, 2015.

Pye, H., D. Luecken, L. Xu, C. Boyd, N. Ng, K. Baker, B. Ayres, J. Bash, K. Baumann, W. Carter, E. Edgerton, J. Fry, Bill Hutzell, D. Schwede, AND P. Shepson. Modeling the current and future role of particulate organic nitrates in the southeastern United States. Environmental Science & Technology Letters. American Chemical Society, Washington, DC, 49(24):14195-14203, (2015).

View more research publications by William Hutzell.

Education:

- B. S. in Astronomy and Physics, University of Maryland, College Park, MD, 1986
- M. S. in Physics, University of Wyoming, Laramie, WY, 1989
- Ph. D. in Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, September 1994

Professional Experience:

- 1998 – Present - Physical Scientist, Atmospheric Modeling Division, National Exposure Research Laboratory, U. S. Environmental Protection Agency, Research Triangle Park, NC Responsibilities develop and evaluate computer models for the air concentration and deposition of Hazardous Air Pollutants. The activities require researching scientific literature, developing conceptual models and implementing them within numerical models for air quality. To evaluate the product, work locates and uses observations to compare with model

predictions. Success requires collaborating with other scientist within and outside the US EPA. These skills were used on models for a pesticide called Atrazine, Dioxins, Furans, aldehydes and chlorinated hydrocarbon compounds.

- <u>1996 – 1998 - Meteorologist, Environmental Sciences Program, Minerals Management Service, U.S. Department of Interior, New Orleans, LA</u>
Responsibilities included writing, awarding, and managing contracts in air quality and meteorology. They also conducted air dispersion modeling to support environmental assessments and impact statements. Other responsibilities advised agency management and coordinating meetings on agency research and regulatory questions. The experience required skills for interpersonal communication and team management. Accomplishments studied sulfur and nitrogen oxides, established meteorological monitors and started emission inventories in the Gulf of Mexico.

- 1994 - Consultant, NASA Ames Research Center, Moffett Field, CA

- 1991-1994 - NASA Graduate Researchers Fellowship, NASA Ames Research Center, Moffett Field, CA

- 1989-1991 - Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA

- 1988-1989 - Teaching Assistant, Astronomy, University of Wyoming, Laramie, WY

- 1986-1988 - Teaching Assistant, Physics, University of Wyoming, Laramie, WY