

**Teri L. Conner, Research Physical Scientist, in EPA's National Exposure Research Laboratory**

Exposure Methods and Measurements Division

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**Areas of Expertise:**

- Air quality – U.S. and international
- Source apportionment of particulate matter and volatile organic compounds
- Model evaluation
- SEM/EDX (scanning electron microscopy with energy dispersive x-ray analysis)
- X-ray fluorescence analysis
- Instrumental neutron activation analysis
- Light scattering and visibility impairment
- Chemical evaporation and dispersion modeling
- Sensor technology
- STEM education and outreach

**Select Publications:**

- T. Vossler**, L. Černíkovský, R. Williams, J. Novák. Source apportionment with uncertainty estimates of fine particulate matter in the Ostrava, Czech Republic using Positive Matrix Factorization. *Atmospheric Pollution Research*, 7, 503-512, 2016.  
doi:10.1016/j.apr.2015.12.004
- T. Vossler**, L. Černíkovský, J. Novák, H. Plachá, B. Krejčí, I. Nikolová, E. Chalupníčková, R. Williams, An investigation of local and regional sources of fine particulate matter in the Ostrava, the Czech Republic. *Atmospheric Pollution Research*, 6, 454-463, 2015.
- T. Conner**, R. Williams, 2004. Identification of possible sources of particulate matter in the personal cloud using SEM/EDX. *Atmospheric Environment*, 38, 5305-5310.
- C. Lewis, G. Norris, **T. Conner**, R. Henry, 2003. Source apportionment of Phoenix PM2.5 aerosol with the UNMIX receptor model. *Journal of the Air and Waste Management Association*, 53, 325-338.
- T. Conner**, G. Norris, M. Landis, R. Williams, 2001. Individual particle analysis of indoor, outdoor, and community samples from the 1998 Baltimore particulate matter study. *Atmospheric Environment*, 35, 3935-3946.
- R. Willis, W. Ellenson, **T. Conner**, 2001. Monitoring and source apportionment of particulate matter near a large phosphorus production facility. *Journal of the Air and Waste Management Association*, 5, 1143-1168.
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**Education:**

- Ph.D., Chemistry, Washington University in Saint Louis, 1985
- M.A., Chemistry, Washington University in Saint Louis, 1983
- B.S., Chemistry, University of Maryland, 1980

**Professional Experience:**

- Research Chemist, then Research Physical Scientist, USEPA, RTP, NC 1990-present
- Engineering Research Fellowship, Air Force Geophysics Laboratory, Bedford, MA 1988-1989
- Staff Scientist, Radian Corporation, Austin, TX 1987-1988
- National Research Council postdoctoral fellowship, USEPA, RTP, NC 1986-1987
- Postdoctoral appointment, Washington University, St. Louis, MO 1985-1986

Honors and Awards:

- U.S. EPA Silver Medal – NERL PM Exposure Analysis Team, for ground-breaking analyses associated with understanding factors that influence personal exposures to ambient PM.
- Five U.S. EPA Bronze Medals – For participation in projects including the Puget Sound Air Toxics Deposition project and the World Trade Center Dust Screening Method Study Team.