Havala Olson Taylor Pye, Physical Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division
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Area of Expertise: Particles in the atmosphere have implications for public health, visibility, and climate change. These aerosols also have a variety of natural and anthropogenic sources and understanding their relative contributions is important for effective air quality management strategies. Havala's work focuses on developing and applying models such as the Community Multiscale Air Quality Model, CMAQ, to describe and understand particles in the atmosphere.

Select Publications:

Pye, H. O. T., A. W. H. Chan, M. P. Barkley, J. H. Seinfeld. Global modeling of organic aerosol: the importance of reactive nitrogen (NOx and NO3), *Atmospheric Chemistry and Physics*, 2010.

Pye, H. O. T. and J. H. Seinfeld, A global perspective on aerosol from low-volatility organic compounds, *Atmospheric Chemistry and Physics*, 2010.

Pye, H. O. T., H. Liao, S. Wu, L. J. Mickley, D. J. Jacob, D. K. Henze, and J. H. Seinfeld, Effect of changes in climate and emissions on future sulfate-nitrate-ammonium aerosol levels in the United States, *Journal of Geophysical Research-Atmospheres*, 2009.

View more research publications by Havala Pye.

Education:

- B.S. in Chemical Engineering *summa cum laude*, University of Florida, 2005
- M.S. in Chemical Engineering, California Institute of Technology, 2007
- Ph.D. in Chemical Engineering with a minor in Environmental Science and Engineering, California Institute of Technology, 2011

Professional Experience:

Honors and Awards:

- Tier 3 Motor Vehicle Emissions and Fuel Standards Team EPA Gold Medal for Exceptional Service (2014)
- EPA Scientific and Technological Achievement Award, STAA, Level III (2014, 2015)
- EPA Bronze Medal for Commendable Service for the Southern Organic Aerosol Study Leadership and Vision Team (2013)

- EPA National Exposure Research Laboratory Early Career in Research Award (2013)
- EPA Atmospheric Modeling and Analysis Division Blue Ribbon Paper Award (2013)
- CMAQ Team Award for Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, EPA (2011)
- National Science Foundation Graduate Research Fellowship (2006-2009)