

## **Ben Murphy, Physical Scientist, in EPA's National Exposure Research Laboratory**

Computational Exposure Division

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**Area of Expertise:** Ben Murphy has expertise in aerosol processes in chemical transport models; organic aerosol formation to, chemical evolution in and fate from the atmosphere; and cloud-aerosol interactions including algorithms for representing the activation of particles into cloud droplets.

### **Select Publications:**

Murphy, B., F. Binkowski, M. Woody, L. Ahlm, L. Russell, AND H. Pye. New particle formation and growth in CMAQ via application of comprehensive modal methods. International Aerosol Modeling Algorithms, Davis, CA, December 09 - 11, 2015.

Murphy, B., F. Binkowski, M. Woody, AND H. Pye. New particle formation and growth in CMAQ: Application of comprehensive modal methods to observations during CalNex and CARES. American Geophysical Union Fall Meeting, San Francisco, CA, December 14 - 18, 2015.

View more research publications by [Ben Murphy](#).

### **Education:**

- B.E. in Chemical Engineering, Vanderbilt University, Nashville, TN, 2007
- Ph.D. in Chemical Engineering, Carnegie Mellon University, Pittsburgh, PA, 2012

### **Professional Experience:**

- Physical Scientist, USEPA/ORD/NERL/CED/AMDB, Research Triangle Park, 2015-Present
- Post-doctoral Researcher, USEPA/ORD/NERL/AMAD/AMDB, National Research Council, Research Triangle Park, 2015
- Post-doctoral Researcher, Department of Analytical Chemistry and Environmental Sciences and Department of Meteorology, Stockholm University, 2012-2015

### **Honors and Awards:**

- Marie Curie International Post-Doctoral Fellowship (2013-2015)
- Research Associate Program Award for Post-Doctoral Research, National Research Council (2015)