Russell W. Long, Research Chemist, in EPA's National Exposure Research Laboratory

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Area of Expertise: Russell's research involves the development and evaluation of high-time resolution methods for gas phase criteria pollutants with emphasis currently placed on methods for ozone and "true' nitrogen dioxide. His other research areas include: high-time resolution determination and speciation of fine particulate matter and its gaseous precursors; and determination of total reactive oxides of nitrogen and its speciated components in support of the proposed NOx/SOx secondary standard.

Select Publications:

- Delbert J. Eatough, Brett D. Grover, Woods R. Woolwine, Norman L. Eatough, Kimberly A. Prather, Laura Shields, Xueying Qin, Kerri Denkenberger, Russell W. Long and Robert Farber, "Source apportionment of 1-hr semi-continuous data during the 2005 Study of Organic Aerosols in Riverside (SOAR) using positive matrix factorization." Atmospheric Environment, 2008, 42 2706-2719
- Jaron C. Hansen, Woods R. Woolwine III, Brittney L. Bates, Jared M. Clark, Roman Y.Kuprov, Puspak Mukherjee, Jacolin A. Murray, Michael A. Simmons, Mark F. Waite, Norman, L. Eatough, Delbert J. Eatough, Russell Long & Brett D. Grover, "Semicontinuous PM2.5 and PM10 Mass and Composition Measurements in Lindon, Utah, during Winter 2007" J. Air & Waste Manage. Assoc., 2010, 60:346– 355
- FRM Reference Method for the Determination of the Total Oxides of Nitrogen Component of the Indicator for Dry Deposition of Oxides of Sulfur and Nitrogen from the Atmosphere prepared reviewed, and submitted to OAQPS for inclusion in the FRM docket, July 12, 2011 (NPR).
- FRM Reference Method for the Determination of the Particulate Sulfate Component of the Indicator for Dry Deposition of Oxides of Sulfur and Nitrogen from the Atmosphere prepared reviewed, and submitted to OAQPS for inclusion in the FRM docket, July 12, 2011 (NPR).
- FRM Reference Method for the Determination of the Sulfur Dioxide Component of the Indicator for Dry Deposition of Oxides of Sulfur and Nitrogen from the Atmosphere prepared reviewed, and submitted to OAQPS for inclusion in the FRM docket, July 12, 2011 (NPR).
- EPA Report EPA/600/1-11/002 Federal Reference Methods for NOy and p-SO4 for the New Combined NOx and SOx Secondary NAAQS, January 20, 2011

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Education:

- Ph.D., Analytical Chemistry, Brigham Young University, 2002
- B.S., Chemistry, Southern Utah University, 1998

Professional Experience:

- Research Chemist (GS-1320-13), United States Environmental Protection Agency, Research Triangle Park, NC January 2006-present
- Physical Scientist (GS-1301-12), United States Environmental Protection Agency, Research Triangle Park, NC December 2002-January 2006
- Research Assistant, Department of Chemistry and Biochemistry, Brigham Young University, January 1999-December 2002
- Teaching Assistant, Department of Chemistry and Biochemistry, Brigham Young University, August 1998-January 1999