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Date of Birth: October 26, 1973
Citizenship: U.S.A.

Assistant Professor
Department of Atmospheric Sciences
University of Washington, Seattle

Scientific Interests: *atmospheric chemistry, air pollution, climate change*

Biography

1996 **B.A.**, Dartmouth College; Magna Cum Laude, Honors in Chemistry
1996-2002 **Ph.D.**, Department of Chemistry, University of California, Berkeley
2002-2004 **Postdoctoral Research Fellow**, Department of Chemistry, University of
 Toronto

Recent Awards and Achievements

1999-2002 NASA Earth Systems Science Fellow
2002 University of California Club of San Francisco Fellowship
2000 Teaching Effectiveness Award (UC, Berkeley campus-wide competition)
1999 Outstanding Graduate Student Instructor (Dept. of Chemistry, UC,
 Berkeley)

Present and Past Memberships

American Chemical Society, American Geophysical Union

Selected Publications

Thornton, J.A., C.F. Braban, and J.P.D. Abbatt, N₂O₅ hydrolysis on sub-micron organic aerosols: the effect of relative humidity, particle phase, and particle size, *Physical Chemistry Chemical Physics*, 5 (20), 4593-4603, 2003.

Murphy, J., J.A. Thornton, D.A. Day, R.S. Rosen, P.J. Wooldridge, R.C. Cohen, Cantrell, C.A., Lefer, B., Shetter, R., Talbot R.W., Observations of Peroxynitrates in the Remote Troposphere, in press, *Atmospheric Chemistry and Physics Discussions*.

Thornton, J.A., P.J. Wooldridge, R.C. Cohen, E.J. Williams, D. Hereid, F.C. Fehsenfeld, J. Stutz, and B. Alicke, Comparisons of in situ and long path measurements of NO₂ in urban plumes, *Journal of Geophysical Research-Atmospheres*, 108 (D16), 2003.

Day, D.A., M.B. Dillon, P.J. Wooldridge, J.A. Thornton, R.S. Rosen, E.C. Wood, and R.C. Cohen, On alkyl nitrates, O₃, and the "missing NO_y", *Journal of Geophysical Research-Atmospheres*, 108 (D16), 2003.

- Thornton, J.A., P.J. Wooldridge, R.C. Cohen, M. Martinez, H. Harder, W.H. Brune, E.J. Williams, S.R. Hall, R.E. Shetter, B.P. Wert, B. Henry, A. Fried, and F.E. Fehsenfeld, Observations of ozone production rates as a function of NO_x abundances and HO_x production rates in the Nashville urban plume, *Journal of Geophysical Research*, 107 (D12), 2002.
- Day, D.A., P.J. Wooldridge, M.B. Dillon, J.A. Thornton, R.C. Cohen, A thermal dissociation – laser induced fluorescence instrument for *in situ* detection of NO₂, peroxy(acyl)nitrates, alkylnitrates, and HNO₃, *Journal of Geophysical Research*, 107 (D6), 2002.
- Thornton, J.A., P.J. Wooldridge, and R.C. Cohen, Appendix D: Laser-induced fluorescence detection of NO₂, in *Recommended Methods for Ambient Air Monitoring of NO, NO₂, NO_y, and Individual NO_z Species*, edited by W.A. McClenny, pp. 62-68, Environmental Protection Agency, Research Triangle Park, 2001.
- Thornton, J.A., P.J. Wooldridge, R.C. Cohen, Atmospheric NO₂: *In situ* laser-induced fluorescence detection at parts per trillion mixing ratios, *Analytical Chemistry*, 72 (3), 528-539, 2000.