

Book Chapters

- Blumenthal D.L. (2011) Measurements of the three-dimensional distribution and transport of aerosols: precedents set by the three-dimensional pollutant gradient study in cooperation with ACHEX. In *Aerosol Science and Technology: History and Reviews*, D.S. Ensor ed., Research Triangle Institute, 297-314 (doi:10.3768/rtipress.2011.bk.0003.1109, STI-4268).
- Blumenthal D.L. and Lurmann F.W. (1994) Design rationale for the SJVAQS/AUSPEX meteorological and air quality measurement network to support regional air quality modeling and analyses. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 131-170.
- Blumenthal D.L. and Watson J.G. (1994) SJVAQS/AUSPEX collaborative field study plan. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 107-130.
- Chow J.C., Watson J.G., Solomon P.A., Thuillier R.H., Magliano K.L., Ziman S.D., Blumenthal D.L., and Richards L.W. (1994) Planning for SJVAQS/AUSPEX particulate matter and visibility sampling and analysis. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 171-216.
- Watson J.G., Chow J.C., Blumenthal D.L., Lurmann F.W., Hackney R.J., Magliano K.L., Pederson J.R., Neff W.D., Roth P.M., Solomon P.A., Thuillier R.H., and Ziman S.D. (1994) Planning for data analysis. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 335-350.
- Watson J.G., Roth P.M., Blumenthal D.L., Ranzieri A.J., Solomon P.A., and Thuillier R.H. (1994) Recommendations on planning a large-scale combined monitoring and modeling effort based on the SJVAQS/AUSPEX Air Quality Study. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 369-382.
- Ruby M.G., Rood M.J., Waggoner A.P., Robinson E., Blumenthal D.L., and Watson J.G. (1989) Integrating Nephelometer Measurement of Scattering Coefficient and Fine Particle Concentrations. *Methods of Air Sampling and Analysis*, P. Lodge, ed., Lewis Publishers, Inc., pp. 450-457.
- Blumenthal D.L., Smith T.B., and White W.H. (1980) The Evolution of the 3-D Distribution of Air Pollutants During a Los Angeles Smog Episode: July 24-26, 1973. In *The Character and Origins of Smog Aerosols. A Digest of Results from the California Aerosol Characterization Experiment (ACHEX)*, Vol. 9, Hidy G.M., Mueller P.K., Grosjean D., Appel B.R., and Wesolowski J.J., eds., John-Wiley & Sons, New York, pp. 613-650.
- Husar R.B., Patterson D.E., Blumenthal D.L., White W.H., and Smith T.B. (1980) Three-Dimensional Distribution of Air Pollutants in the Los Angeles Basin. In *The Character and Origins of Smog Aerosols. A Digest of Results from the California Aerosol Characterization Experiment (ACHEX)*, Vol. 9, Hidy G.M., Mueller P.K., Grosjean D., Appel B.R., and Wesolowski J.J., eds., John-Wiley & Sons, New York, pp. 593-612.

Smith T.B., Blumenthal D.L., and Marsh S.L. (1980) Summary of Meteorology in the Los Angeles Basin During ACHEX I and II. In *The Character and Origins of Smog Aerosols. A Digest of Results from the California Aerosol Characterization Experiment (ACHEX)*, Vol. 9, Hidy G.M., Mueller P.K., Grosjean D., Appel B.R., and Wesolowski J.J., eds., John-Wiley & Sons, New York, pp. 585-592.

Journal Articles

Watson J.G., Chow J.C., Lowenthal D.H., Robinson N.F., Cahill C.F., and Blumenthal D.L. (2002) Simulating changes in source profiles from coal-fired power stations: use in chemical mass balance of PM_{2.5} in the Mount Zirkel wilderness. *Energy & Fuels* **16** (2), 311-324.

Watson J.G., Chow J.C., Lowenthal D.H., Cahill C.F., Blumenthal D.L., Richards L.W., and Jorge H.G. (2001) Aerosol chemical and optical properties during the Mt. Zirkel Visibility Study. *J. Environ. Qual.* **30**, 1118-1125.

Lindsey C.G., Chen J., Dye T.S., Richards L.W., and Blumenthal D.L. (1999) Meteorological processes affecting the transport of emissions from the Navajo Generating Station to Grand Canyon National Park. *J. Appl. Meteorol.* **38**, No. 8, 1031-1048.

Ryan W.F., Doddridge B.G., Dickerson R.R., Morales R.M., Hallock K.A., Roberts P.T., Blumenthal D.L., Anderson J.A., and Civerolo K.L. (1998) Pollutant transport during a regional O₃ episode in the mid-Atlantic states. *J. Air & Waste Manag. Assoc.* **48**, September, 786-797.

Watson J.G., Chow J.C., Fujita E.M., Lawson D.R., and Blumenthal D.L. (1995) A survey of emissions, meteorology, chemical transformations, and data sets relevant to receptor modeling in southern California.

Hering S.V., Blumenthal D.L., Brewer R.L., Gertler A., Hoffmann M., Kadlec J.A., and Pettus K. (1987) Field intercomparison of five types of fog water collectors. *Env. Sci. Technol.* **21**, 654-663.

Richards L.W., Anderson J.A., Blumenthal D.L., McDonald J.A., Macias E.S., Hering S.V., and Wilson Jr. W.E. (1985) Chemical, aerosol and optical measurements in the plumes of three midwestern coal-fired power plants. *Atmos. Environ.* **19**, 1685-1704.

Blumenthal D.L., McDonald J.A., Keifer W.S., Tommerdahl J.B., Saeger M.L., and White J.H. (1984) Three-dimensional pollutant distribution and mixing layer structure in the northeast U.S., summary of sulfate regional experiment (SURE) aircraft measurements. *Atmos. Environ.* **18**, 733-749.

Richards L.W., Anderson J.A., Blumenthal D.L., McDonald J.A., Kok G.L., and Lazrus A.L. (1983) Hydrogen peroxide and sulfur (IV) in Los Angeles cloud water. *Atmos. Environ.* **17**, 911-914.

Farber R.J., Huang A.A., Bregman L.D., Mahoney R.L., Eatough D.J., Hansen L.D., Blumenthal D.L., Keifer W.S., and Allard D.W. (1982) The third dimension in the Los Angeles basin. *Sci. of Total Environ.* **23**, 345-360.

Richards L.W., Blumenthal D.L., Bergstrom R.W., Seigneur C., Smith T.B., Macias E.S., Hering S.V., Bhardwaja P.S., and Wilson Jr. W.E. (1982) VISTTA author's reply. *Atmos. Environ.* **16**, 2363-2365.

Blumenthal D.L., Richards L.W., Macias E.S., Bergstrom R.W., Wilson Jr. W.E., and Bhardwaja P.S. (1981) Effects of a coal-fired power plant and other sources on southwestern visibility (interim summary of EPA's project VISTTA). *Atmos. Environ.* **15**, 1955-1969.

Richards L.W., Anderson J.A., Blumenthal D.L., Brandt A.A., McDonald J.A., Waters N., Macias E.S., and Bhardwaja P.S. (1981) The chemistry, aerosol physics, and optical properties of a western coal-fired power plant plume. *Atmos. Environ.* **15**, 2111-2134.

- Macias E.S., Blumenthal D.L., Anderson J.A., and Cantrell B.K. (1980) Size and composition of visibility-reducing aerosols in southwestern plumes. *Ann. New York Acad. Sci.* **338**, 233-257.
- Markson R., Blumenthal D.L., Sedlavec J., and Muir M. (1979) Atmospheric electrical plume theory: field and measurements. *Bull. Am. Meteorol. Soc.* **60**, 98-109.
- Blumenthal D.L., Smith T.B., and White W.H. (1978) Anatomy of a Los Angeles smog episode: pollutant transport in the daytime sea breeze regime. *Atmos. Environ.* **12**, 893-907.
- Blumenthal D.L., Ogren J.A., and Anderson J.A. (1978) Airborne sampling system for plume monitoring. (Presented at the *International Symposium on Sulfur in the Atmosphere, Dubrovnik, Yugoslavia, September 1977*). *Atmos. Environ.* **12**, 613-620.
- Smith T.B., Blumenthal D.L., Anderson J.A., and Vanderpol A.H. (1978) Transport of SO₂ in power plant plumes: day and night. (Presented at the *International Symposium on Sulfur in the Atmosphere, Dubrovnik, Yugoslavia, September 1977*). *Atmos. Environ.* **12**, 605-612.
- Husar R.B., Patterson D.E., Blumenthal D.L., White W.H., and Smith T.B. (1977) Three-dimensional distribution of air pollutants in the Los Angeles basin: average vertical profiles at Hawthorne, El Monte, Ontario, and Riverside. *J. Appl. Meteorol.* **16**, 1089-1096.
- Husar R.B., White W.H., and Blumenthal D.L. (1976) Direct evidence of heterogeneous aerosol formation in Los Angeles smog. *Environ. Sci. Technol.* **10**, 490-491.
- White W.H., Anderson J.A., Blumenthal D.L., Husar R.B., Gillani N.V., Husar J.D., and Wilson Jr. W.E. (1976) Formation and transport of secondary air pollutants: ozone and aerosols in the St. Louis urban plume. *Science* **194**, 187-189.
- Blumenthal D.L. (1975/1976) Distribution and transport of ozone in the South Coast basin. *California Air Environment, University of California* **6:1, Fall/Winter**, 4.

Meeting Presentations and Conference Proceedings

- Blumenthal D.L. (2006) Measurements of the 3-D distribution and transport of aerosols: precedents set by the 3-D Gradient Study in cooperation with ACHEX. Presented at the *Third Symposium: History of Aerosol Science, St. Paul, MN, September 8-9*, by Sonoma Technology, Inc., Petaluma, CA (620000-3027).
- MacDonald C.P., Blumenthal D.L., Roberts P.T., and Crews J.M. (2002) Ozone yield and gross estimation of point, mobile, and area source contributions to regional background ozone in Eastern Texas. Presented at the *American Meteorological Society Annual Conference, Orlando, Florida, January 17* (STI-2140).
- Blumenthal D.L. and Anderson J.A. (2001) Ozone layers, northern boundary conditions, and air-ground comparisons during SCOS-97. Presented at *SCOS97-NARSTO Data Analysis Conference, Diamond Bar, CA, February 13-15*.
- Magliano K.L., Richards L.W., Blumenthal D.L., Lehrman D.E., Watson J.G., McDade C., and Weiss R.E. (2000) Light scattering measurements in the California Regional PM₁₀/PM_{2.5} Air Quality Study. Presented at the *Air & Waste Management Association 93rd Annual Meeting, Salt Lake City, UT, June 18-22*.
- MacDonald C.P., Blumenthal D.L., Roberts P.T., and Crews J.M. (1999) Analysis of air quality data collected by the Baylor University aircraft. Presentation prepared for the Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-999640-1927, November.

- Blumenthal D.L., Ray S.E., Dye T.S., Korc M., Moore G., and Londergan R. (1998) Transport phenomena related to ozone episodes in the Northeast U.S. Paper no. 5A.5 in preprints of *10th Joint Conference on the Applications of Air Pollution Meteorology, January 11-16*, 182-186 (STI-1756).
- Moore G., Londergan R., and Blumenthal D.L. (1998) Trajectory analysis of regional transport of air masses into New England. Paper no. 5A.3 in preprints of *10th Joint Conference on the Applications of Air Pollution Meteorology, January 11-16*, 173-176.
- Ray S.E., Dye T.S., Roberts P.T., and Blumenthal D.L. (1998) Analysis of nocturnal low-level jets in the Northeastern United States during the summer of 1995. Paper No. 5A.4 in preprints of *10th Joint Conference on the Applications of Air Pollution Meteorology, Phoenix, AZ, January 11-16* (STI-1750).
- Richards L.W., Blumenthal D.L., Dye T.S., Watson J., Chow J., Dietrich D.L., Cobb D., and Cismoski D.S. (1998) Fine particle formation in plumes in a pristine area. Presented at the *Air & Waste Management Association PM_{2.5} Conference in Long Beach, CA, Jan 28-30*.
- Watson J.G., Chow J.C., Cahill C.F., Blumenthal D.L., Richards L.W., Dietrich D.L., Cobb D., Morris R.E., Emory C., and Dickson R.J. (1997) Conclusions from the Mt. Zirkel Visibility Study. In *Proceedings, Visual Air Quality: Aerosols and Global Radiation Balance*, Tombach I.H., Richards L.W., Russell P.B., and Saxena P., eds., Air and Waste Management Association, Pittsburgh, PA, 98-104.
- Blumenthal D. and Londergan R. (1996) NARSTO-Northeast initial results on transport regimes. Paper presented at the OTAG Air Quality Analysis Workgroup Meeting, Washington, DC, December 17.
- Roberts P.T., Blumenthal D., and Anderson J.A. (1996) Air quality at the upwind boundaries of the OTR urban corridor and of the OTR. Talk presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop, Norfolk, VA, December 10-12*.
- Roberts P.T., Dye T.S., Anderson J.A., and Blumenthal D. (1996) Case study of 3-D meteorological and air quality characteristics downwind of New York City during a 1995 ozone episode. Talk presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop, Norfolk, VA, December 10-12*.
- Ryan W.F., Dickerson R.R., Doddridge B.G., Civerolo K., Hallock K., Roberts P.T., Blumenthal D.L., and Anderson J.A. (1996) Regional trace gas observations during a high O₃ episode in the Mid-Atlantic region: a case study. Presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop, Norfolk, VA, December 10-12*.
- Korc M.E., Roberts P.T., and Blumenthal D.L. (1996) The NARSTO-Northeast Air Quality Study data archive. Paper presented at the *Air & Waste Management Association Computing in Environmental Resource Management Conference, Raleigh-Durham, NC, December 2-4* (STI-1616).
- Cahill C.F., Watson J.G., Chow J.C., Blumenthal D.L., Richards L.W., Lindsey C., Dietrich D.L., Cobb D., Houck J.A., Dickson R.J., Morrison B., and Andersen S. (1996) An overview of the Mt. Zirkel wilderness area reasonable attribution study of visibility impairment. Paper 96-TA1B.05 presented at the *Air & Waste Management Association 89th Annual Meeting & Exhibition, Nashville, TN, June 23-28*.
- Lindsey C.G., Blumenthal D.L., Peterman K.R., Gage K.S., Neff W.D., and Ecklund W.L. (1996) A report on the success of a cooperative research and development agreement to commercialize NOAA's boundary layer radar profiler technology: a 5th anniversary update. Paper FA 9.3 presented at the *Symposium on Environmental Applications at the 76th AMS Annual Meeting, Atlanta, GA, January 28-February 2* (STI-1550).

- Lindsey C.G., Dye T.S., Blumenthal D.L., Ray S.E., and Arthur M. (1996) Meteorological aspects of summertime ozone episodes in the Northeast. Paper FA 5.8 presented at the *9th Joint Conference on the Applications of Air Pollution Meteorology at the 76th AMS Annual Meeting, Atlanta, GA, January 28-February 2* (STI-1549).
- Blumenthal D.L. and Niccum E.M. (1993) Comparisons of aircraft and surface SJVAQS/AUSPEX air quality data. Paper No. FM5-I.5 presented at the *Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12* (STI-1406).
- Blumenthal D.L. and Roth R.M. (1993) Planning regional photochemical measurement/modeling studies. Paper No. OT1-II presented at the *Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12* (STI-1385).
- Lindsey C.G., Dye T.S., Anderson J.A.A., Roberts P.T., and Blumenthal D.L. (1994) Radar profiler observations of boundary layer processes affecting air quality. In *Preprints of the Third International Symposium on Tropospheric Profiling: Needs and Technologies, Hamburg, Germany, August 30-September 2*, pp. 45-47 (STI-1436).
- Blumenthal D.L. (1992) Design of the SJVAQS/AUSPEX meteorological measurement program to support regional air quality modeling. Paper No. 92-101.06 presented at the *Air & Waste Management Association 85th Annual Meeting, Kansas City, KS, June 21-26*.
- Watson J., Chow J., Roth P., Ziman S., Neff W., Magliano K., Pederson J., Hackney R., Solomon P., Thuillier R., Blumenthal D., and Lurmann F. (1992) Data analysis for SJVAQS/AUSPEX. Paper No. 92-77.05 presented at the *Air & Waste Management Association 85th Annual Meeting, Kansas City, KS, June 21-26*.
- Blumenthal D.L. and Watson J.G. (1991) SJVAQS/AUSPEX collaborative field study plan. Paper No. 91-70.6 presented at the *Air & Waste Management Association 84th Annual Meeting, Vancouver, BC, June 16-21*.
- Roth P.M., Blumenthal D.L., Ranzieri A., Solomon P., Thuillier R.H., and Watson J.G. (1991) Recommendations on planning a large scale combined monitoring and modeling effort based on the experience of the SJV/AUSPEX air quality study: a panel discussion. Paper No. 91-71.6 presented at the *Air & Waste Management Association 84th Annual Meeting, Vancouver, BC, June 16-21*.
- Richards L.W., Anderson J.A., Blumenthal D.L., McDonald J.A., Bhardwaja P.S., Candelaria R.B., and Moon D.W. (1990) Nitrogen and sulfur chemistry and aerosol formation in a western coal-fired power plant plume. In *Transactions TR-17 from an International Specialty Conference, Visibility and Fine Particles, Estes Park, CO, October 15-19, 1989*, 242-260, C.V. Mathai, ed., Air & Waste Management Association, Pittsburgh, PA.
- Blumenthal D.L., Hering S.V., Lawson D.R., Watson J.G., and Roberts P.T. (1989) Southern California air quality study (SCAQMS) planning process and field measurements. Paper No. 89-111.1 presented at the *Air & Waste Management Association 82nd Annual Meeting, Anaheim, CA, June 25-30*.
- Trijonis J.C., Pitchford M.L., McGown M., Blumenthal D.L., Dodson T., Flocchini R.G., Kelso R., Knuth W.R., Macias E.S., Gara J.E., Pitchford A., Smith T.B., Waggoner A.P., Watson J.G., Weiss R.E., and White W.H. (1987) Preliminary extinction budget results from the RESOLVE program. In *Transactions, Visibility Protection: Research and Policy Aspects. Transactions TR-10 of an APCA Specialty Conference, Grand Teton National Park, WY, September 7-10, 1986*, Bhardwaja P.S., ed., Air Pollution Control Association, Pittsburgh, PA, pp. 872-883.
- Blumenthal D.L., Flocchini R.G., Smith T.B., Knuth W.R., and McGown M. (1987) Meteorological regimes and transport patterns associated with visibility impairment in the California high desert region. In

Transactions, Visibility Protection: Research and Policy Aspects, Air Pollution Control Association Specialty Conference, Grand Teton National Park, WY, September 7-10.

Blumenthal D.L., Trijonis J., Kelso R., O'Gara J.E., Pitchford M., McGown M., Dodson T., Flocchini R., Pitchford A., Waggoner A., and Ouimette J. (1987) Design and initial findings of the RESOLVE (REsearch on Operations Limiting Visual Exinction) desert visibility study. In *Transactions, Visibility Protection: Research and Policy Aspects, Air Pollution Control Association Specialty Conference, Grand Teton National Park, WY, September 7-10.*

Richards L.W., Anderson J.A., Blumenthal D.L., McDonald J.A., Hering S.V., and Wilson Jr. W.E. (1984) Formation of light scattering aerosol in smelter and power plant plumes. Presented at the *First International Aerosol Conference, Minneapolis, MN, September 17-21*, Liu, B.Y.H., D.Y.H. Pui, and H.J. Fissan, eds., *Aerosols*, Elsevier, NY, pp. 421-424.

Hering S.V. and Blumenthal D.L. (1983) Field comparison of fog/cloud water collectors: preliminary results. Paper presented at the *Air Pollution Control Association Specialty Conference on Acid Deposition, Hartford, CT, October.*

Richards L.W., Blumenthal D.L., Anderson J.A., and McDonald J.A. (1983) Sulfate and nitrate in Los Angeles cloud water and aerosol. Paper presented at the *American Meteorological Society 185th National Meeting, Seattle, WA, March.*

Richards L.W., Anderson J.A., and Blumenthal D.L. (1982) Comparison of the optical properties of particles in smelter and western power plant plumes. Paper presented at the *Air Pollution Control Association 75th Annual Meeting, New Orleans, LA, June.*

Richards L.W., Anderson J.A., Blumenthal D.L., Brandt A.A., McDonald J.A., Waters N., Bhardwaja P.S., Moon D.W., and Candelaria R.B. (1982) Nitrogen and sulfur chemistry and aerosol formation in a western coal-fired power plant plume. Paper presented at the *Air Pollution Control Association 75th Annual Meeting, New Orleans, LA, June.*

Richards L.W., Anderson J.A., Blumenthal D.L., McDonald J.A., Waters N., Macias E.S., and Wilson Jr. W.E. (1982) Aerosol formation in smelter and power plant plumes in the southwest. Paper presented at the *First Annual Conference of the American Association for Aerosol Research, Santa Monica, CA, February.*

Blumenthal D.L., Richards L.W., Lehrman D.E., Anderson J.A., and Keifer W.S. (1982) Analysis techniques for airborne data from plumes and mesoscale regions. Paper presented at the *Air Pollution Control Association Specialty Meeting on In-Situ Air Quality Monitoring from Moving Platforms, San Diego, CA, January.*

Macias E.S., Blumenthal D.L., Anderson J.A., and Cantrell B.K. (1979) Size and composition of visibility-reducing aerosols in southwestern plumes. Paper presented at the *Conference on Aerosols: Anthropogenic and Natural-Sources and Transport, New York Academy of Sciences, January (MRI 79 Pa-1599).*

Macias E.S., Blumenthal D.L., Anderson J.A., Ogren J.A., Cantrell B.K., and Shadoan D.J. (1979) Measurements of size distribution, chemical composition, and sources of visibility-reducing aerosols in the southwestern United States. Paper presented at the *American Chemical Society Division of Environmental Chemistry, Honolulu, HI, April.*

Blumenthal D.L., Ogren J.A., and Anderson J.A. (1977) Airborne sampling system for plume monitoring. Presented at the *International Symposium on Sulfur in the Atmosphere, Dubrovnik, Yugoslavia, September.*

- Smith T.B., Blumenthal D.L., Anderson J.A., and Vanderpol A.H. (1977) Transport of SO₂ in power plant plumes: day and night. Presented at the *International Symposium on Sulfur in the Atmosphere*, Dubrovnik, Yugoslavia, September.
- Blumenthal D.L. and White W.H. (1977) Transport of oxidant and oxidant precursors. Paper presented at the *ASME/Air Pollution Control District Fifth National Symposium, Pittsburgh, PA, May*.
- Anderson J.A., Blumenthal D.L., and Sem G.J. (1977) Characterization of Denver's urban plume using an instrumented aircraft. In *Proceedings of Symposium, Denver Air Pollution Study - 1973*, Vol. II, EPA 600/77-001, February, pp. 3-33.
- White W.H., Blumenthal D.L., Anderson J.A., Husar R.B., and Wilson Jr. W.E. (1977) Ozone formation in the St. Louis urban plume. In *Proceedings, Vol. I, International Conference of Photochemical Oxidant Pollution and Its Control*, North Carolina, September, 1976, EPA-600/3-77-001a, pp. 237-247.
- Durham J.L., Wilson Jr. W.E., Aneja V.P., Overton Jr. J.H., Blumenthal D.L., Anderson J.A., Frisella S., Dennevik W., Hull L., and Woodford R. (1977) Sulfate aerosol formation rate in an oil fired power plant plume. Paper presented at the *American Institute of Chemical Engineers 83rd National Meeting, Houston, TX, March*.
- Tesche T.W., Ogren J.A., and Blumenthal D.L. (1977) Ozone concentrations in power plant plumes: comparison of models and sampling data. In *Proceedings, Vol. 1, International Conference of Photochemical Oxidant Pollution and Its Control, North Carolina, September 1976*. EPA-600/3-77-001a, January, pp. 157-171.
- White W.H., Anderson J.A., Blumenthal D.L., Husar R.B., and Wilson Jr. W.E. (1976) Formation and transport of light-scattering aerosols in the St. Louis urban plume. Paper presented at the *Radiation Symposium, Garmish-Partenkirchen, Germany, August*.
- Wilson W.E. Jr., Charlson R.J., Husar R.B., Whitby K.T., and Blumenthal D.L. (1976) Sulfates in the atmosphere. Paper presented at the *Air Pollution Control Association 69th Annual Meeting, Portland, OR, June 27-July 1*.
- Whitby K.T., Cantrell B.C., Husar R.B., Gillani N.V., Anderson J.A., Blumenthal D.L., and Wilson Jr. W.E. (1976) Aerosol formation in a coal-fired power plant plume. In *Proceedings, American Chemical Society 171st National Meeting, Division of Environmental Chemistry, New York, April 4-9*.
- White W.H., Anderson J.A., Blumenthal D.L., Husar R.B., Gillani N.V., Fuller S.B., Whitby K.T., and Wilson Jr. W.E. (1976) Formation of ozone and light-scattering aerosols in the St. Louis urban plume. In *Proceedings, American Chemical Society 171st National Meeting, Division of Environmental Chemistry, New York, April 4-9*.
- Ogren J.A., Blumenthal D.L., and White W.H. (1976) Study of ozone formation in power plant plumes. Paper presented at the *Air Pollution Control Association Specialty Conference on Ozone/Oxidants: Interactions with the Total Environment, Dallas, TX, March*.
- Blumenthal D.L. and White W.H. (1975) The stability and long range transport of ozone or ozone precursors. Paper No. 75-07.4 presented at the *Air Pollution Control Association 68th Annual Meeting, Massachusetts, June*.
- Blumenthal D.L. (1975) Assessment of three-dimensional pollutant variability with airborne platforms. In *Proceedings, Monitoring from Airborne Platforms for Environmental Quality Assessment, National Environmental Research Center, Las Vegas, NV, March*, pp. 11-37.

- Blumenthal D.L. (1974) Airborne surveys in urban air basins: implications for model development. In *Proceedings, University of California - Air Resources Board Conference on Technical Bases for Control Strategies of Photochemical Oxidant: Current Status and Priorities in Research, Riverside, CA, December.*
- Blumenthal D.L. and Smith T.B. (1974) Evolution of the spatial distribution of substances during Los Angeles smog episodes. Paper No. 7 presented at the *1974 Pacific Conference on Chemistry and Spectroscopy, San Francisco, CA, October, p. 29 (Abstract).*
- Blumenthal D.L., Anderson J.A., and Sem G.J. (1974) Characterization of Denver's urban plume using an instrumented aircraft. Paper No. 74-266 presented at the *Air Pollution Control Association 67th Annual Meeting, Denver, CO, June.*
- Husar R.B., Blumenthal D.L., Anderson J.A., and Wilson Jr. W.E. (1974) The urban plume of St. Louis. Paper presented at the *American Chemical Society Division of Environmental Chemistry, Los Angeles, CA, March 28-April 5.*
- Blumenthal D.L. (1973) Measurement of physical and chemical plume parameters using an airborne monitoring system. Paper presented at the *Air Pollution Control Association 66th Annual Meeting, Pacific Northwest International Section, Seattle, WA, November.*
- Blumenthal D.L. and Ensor D.S. (1972) The use of light aircraft to measure the three-dimensional distribution of air pollutants. Paper presented at the *Air Pollution Control Association 65th Annual Meeting, Pacific Northwest International Section, Eugene, OR, November.*
- Blumenthal D.L. and Ensor D.S. (1972) Monitoring of air pollution from an airborne platform. Paper presented at the *13th Conference on Methods in Air Pollution and Industrial Hygiene Studies, Berkeley, CA, October.*

Formal Reports

- Blumenthal D.L., MacDonald C.P., and Knoderer C.A. (2007) Turbulence felt in a light helicopter caused by a power plant thermal plume. Final report prepared for Downey Brand LLP, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, 907059-3269-FR, December.
- MacDonald C.P., Knoderer C.A., and Blumenthal D.L. (2006) Development and implementation of offshore meteorological systems to support TexAQS-II. Final report prepared for the Texas Commission on Environmental Quality, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-905060-2993-FR, June.
- Wittig A.E., Blumenthal D.L., Roberts P.T., and Hyslop N.P. (2003) California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) anchor site measurements and operations. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency c/o California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999231-2332-FR, May.
- Buhr M.P., Blumenthal D.L., and Alcorn S.H. (2002) Measurements made aloft by two aircraft to support the Central California Ozone Study (CCOS). Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency/California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900106-2131-FR, April.
- Blumenthal D.L., Knoderer C.A., and Barnett A.N. (2002) Performance audit report. Prepared for Lawrence Berkeley National Laboratory, Berkeley, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-901260-2150-AR, February.

- Blumenthal D.L., Roberts P.T., Buhr M.P., and Andeson J.A. (2002) Evaluation of the TNRCC/Baylor aircraft program and recommended changes. Prepared for Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-900632-2152-TM, February.
- Buhr M.P., Alcorn S.H., and Blumenthal D.L. (2001) Central California Ozone Study aircraft data. Data volume prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900106-2074-DV, August.
- Blumenthal D.L. and Rumm C.K. (2001) Meteorological tower audit report, Naval Air Warfare Center, China Lake, CA. Report prepared for the Naval Air Warfare Station, China Lake, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900880-2091, June.
- MacDonald C.P., Blumenthal D.L., Roberts P.T., and Crews J.M. (2001) Analysis of 1997 through 1999 air quality data collected by the Baylor University aircraft. Report prepared for the Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-900510-2033-FR, January.
- MacDonald C.P., Blumenthal D.L., Roberts P.T., and Crews J.M. (1999) Meteorological and air quality analyses to support aircraft flight planning for Houston. Technical memorandum prepared for the Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-999490-1918-TM, September.
- Anderson J.A. and Blumenthal D.L. (1999) Measurements made aloft by a twin-engine aircraft to support the SCOS97-NARSTO study. Report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc, Petaluma, CA, STI-997190-1872-FR, May.
- Roberts P.T., Dye T.S., Ray S.E., Anderson J.A., Blumenthal D.L., MacDonald C.P., Main H.H., and Kumar N. (1999) Analysis of data from the 1995 NARSTO-Northeast Study Volume V: Three-dimensional analysis of aircraft and upper-air meteorological data. Report prepared for Coordinating Research Council, Atlanta, GA, under subcontract to ENVIRON International Corp., Novato, CA by Sonoma Technology, Inc., Petaluma, CA, STI-95426-1836-FR, April.
- Roberts P.T., Reiss R., and Blumenthal D.L. (1998) NARSTO-Northeast 1997 Summer Ozone Study. Draft final report prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-996135-1790-DFR, EPRI Research Project EPRI WO9108-1, December.
- Anderson J.A., Wright D.B., and Blumenthal D.L. (1998) The real-time measurement data collected aboard the STI aircraft during SCOS97 sampling. Data volume prepared for the California Air Resources Board, Sacramento, CA by Sonoma Technology, Petaluma, CA, STI-997190-1807-DV, May.
- Blumenthal D.L., Kumar N., Chinkin L.R., Dye T.S., Roberts P.T., and Lurmann F.W. (1998) Nitrogen oxides transport from La Cygne Station, KS: a study for assessing its influence on urban ozone. Final report prepared for La Cygne Study Steering Committee by Sonoma Technology, Inc., Petaluma, CA, STI-997380-1762-FR, February.
- Blumenthal D.L., Roberts P.T., Chinkin L.R., Dye T.S., and Kwiatkowski J.J. (1997) An ozone scoping study for the Kansas City area. Prepared for consideration by The NO_x Steering Committee, Environment Group, Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997380-1742-WP1.1, September.
- Blumenthal D.L., Lurmann F.W., Kumar N., Dye T.S., Ray S.E., Korc M.E., Londergan R., and Moore G. (1997) Assessment of transport and mixing and OTAG model performance for Northeast U.S. ozone episodes.

Summary of results. Report prepared for Ozone Transport Assessment Group, Air Quality Analysis Workgroup by Sonoma Technology, Inc., Santa Rosa, CA, and Earth Tech, Concord, MA, STI-996133-1710/1716-S, March.

Blumenthal D.L., Lurmann F.W., Kumar N., Ray S.E., Korc M.E., Londergan R., and Moore G. (1997) Transport and mixing phenomena related to ozone exceedances in the Northeast U.S. Working Draft No. 1.1 prepared for Ozone Transport Assessment Group Air Quality Analysis Workgroup by Sonoma Technology, Inc., Santa Rosa, CA, and Earth Tech, Concord, MA, STI-996133-1710-WD1.1, February.

Blumenthal D.L., Lurmann F.W., Roberts P.T., Main H.H., MacDonald C.P., Knuth W.R., and Niccum E.M. (1997) Three-dimensional distribution and transport analyses for SJVAQS/AUSPEX. Final report prepared for San Joaquin Valley Air Pollution Study Agency, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, Technical & Business Systems, Santa Rosa, CA, and California Air Resources Board, Sacramento, CA, STI-91060-1705-FR, February.

Blumenthal D. and Eisinger D. (1996) Conceptual plan for an integrated ozone monitoring and modeling study for the Northeast U.S. Phase I: background, regulatory context, and conceptual plan elements. Report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94740-1591-DR, December.

Roberts P.T., Korc M.E., and Blumenthal D.L. (1996) Description of the NARSTO-Northeast 1996 Summer Ozone Study. Version 1.0. Report prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, (STI-996135-1607-DR, Research Project EPRI WO9108-01), December.

Watson J.G., Blumenthal D.L., Chow J., Cahill C., Richards L.W., Dietrich D., Morris R., Houck J., Dickson R.J., and Andersen S. (1996) Mt. Zirkel Wilderness Area reasonable attribution study of visibility impairment. Final report prepared for Technical Steering Committee, c/o Colorado Department of Public Health and Environment, Air Pollution Control Division, Denver, CO, by Desert Research Institute, Reno, NV, Sonoma Technology, Inc., Santa Rosa, CA, Air Resource Specialists, Inc., Fort Collins, CO, Environ, Novato, CA, Applied Geotechnology Inc., Portland, OR, Radian Corporation, Sacramento, CA, SECOR International Inc., Fort Collins, CO, and NOAA, Boulder, CO, July.

Roberts P.T., Korc M.E., and Blumenthal D.L. (1996) NARSTO-Northeast 1996 field plan and forecasting and decision-making protocol. Report prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, EPRI Research Project WO9108-01, STI-996135-1592-FP, June.

Korc M., Roberts P., and Blumenthal D. (1996) NARSTO-Northeast data management plan. Version 3.1. Report prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95141-1537; Research Project EPRI WO9108-01, May.

Roberts P.T., Korc M.E., Blumenthal D.L., and Mueller P.K. (1996) Description of the NARSTO-NE 1995 summer ozone study. Version 1.2. Report prepared by Electric Power Research Institute, Palo Alto, CA.

Roberts P.T., Korc M.E., and Blumenthal D.L. (1995) Summary of 1995 NARSTO-Northeast observational activities. Working draft version 1.0. Report prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95135-1538-WD1, Research Project EPRI WO9108-01, October.

Blumenthal D.L. and Watson J.G. (1995) Mount Zirkel wilderness area reasonable attribution study of visibility impairment program management plan. Working Draft No. 3.1. Report prepared for Colorado

Department of Public Health & Environment, Denver, CO, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95031-1528-WD3.1, September.

- Blumenthal D.L., Lindsey C.G., Dye T.S., Main H.H., Korc M.E., Roberts P.T., Arthur M., Ray S.E., and Blanchard C.L. (1995) Ozone episodes in the Northeastern U.S.: observations during 1994. Final report prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-94362-1511-FR, September.
- Watson J.G., Chow J.C., Cahill C.F., Cal M., Divita Jr. F., Freeman D., Gillies J.A., Blumenthal D., Richards L.W., Chinkin L., Lindsey C., Prouty J., Dietrich D., Cobb D., Houck J., Dickson R.J., and Andersen S. (1995) Mt. Zirkel Wilderness Area reasonable attribution study of visibility impairment. Technical reasonable attribution study plan. Working draft version 2.0. Prepared for Technical Steering Committee, c/o Colorado Department of Public Health and Environment, Air Pollution Control Division, Denver, CO, by Desert Research Institute, Reno, NV, Sonoma Technology, Inc., Santa Rosa, CA, Air Resource Specialists, Inc., Fort Collins, CO, Applied Geotechnology Inc., Portland, OR, Radian Corporation, Sacramento, CA, and SECOR International Inc., Fort Collins, CO, August.
- Roberts P.T., Korc M.E., and Blumenthal D.L. (1995) NARSTO-Northeast 1995 field plan and forecasting and decision-making protocol. Working draft version 1.1 prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95131-1523-WDV1.1, EPRI Research Project 9108-1, June.
- Blumenthal D.L. (1995) Northeast Air Quality Study field program summary. Report prepared by Sonoma Technology, Inc., Santa Rosa, CA, May.
- Mueller P.K., Hansen D.A., and Blumenthal D.L. (1995) Prospectus NARSTO-Northeast. RFP draft V4.1.1. Prepared for consideration by study participants by Electric Power Research Institute, Palo Alto, CA, March.
- Thuillier R.H., Blumenthal D.L., Roberts P.T., Gertler A.W., and Watson J.G. (1994) Meteorological field measurement program for SJVAQS/AUSPEX. Report prepared for Pacific Gas and Electric Company, San Ramon, CA, Report No. 009.2-93.4, November.
- Chinkin L., Blumenthal D., Jones C., Thompson J., and Weinstein E. (1994) Data archiving plan for the 1994 Northeast Air Quality Study (NEAQS '94). Working draft V1.2 prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA and Electric Power Research Institute, Palo Alto, CA, STI-94361-1425-WD1.2, RP9072, October.
- Blumenthal D.L., Lurmann F.W., Main H.H., Prouty J.D., Cleary P.G., Start G.E., Ricks N.R., Thuillier R.H., Solomon P.A., Gertler A.W., Watson J.G., and Pederson J.R. (1993) Field program plan for the San Joaquin Valley Air Quality Study (SJVAQS) and the Atmospheric Utility Signatures, Predictions, and Experiments (AUSPEX) Program. Version #3 post field revision prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-98020-1241-FR, October.
- Blumenthal D.L., Roberts P.T., Lurmann F.W., Lindsey C.G., Dye T.S., Reynolds S., and Roth P.M. (1993) Preliminary scope for a Gulf Coast Ozone Study. Final report prepared for the American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA and Envair, San Rafael, CA, STI-92014-1202-FR, June.
- Roberts P., Blumenthal D., Lindsey C., Anderson J., Yocke M., Barnett A., Hamilton R., Dybevic M., and Zeigler G. (1992) Gulf of Mexico Air Quality Study field plan. Working draft no. 2 prepared for the Minerals Management Service, U.S. Department of Interior, New Orleans, LA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92040-1212-WD2, Contract No. 1435000130604, September.

- Blumenthal D.L., Dye T.S., Lehrman D.E., Zeldin M.E., and Bregman L.D. (1992) Technology survey and scoping recommendations for an upper air monitoring network for the South Coast air basin. Final report prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-99060-1025-FR, April.
- Richards L.W., Blanchard C.L., and Blumenthal D.L., eds. (1991) Navajo Generating Station Visibility Study. Final report prepared for Salt River Project, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90200-1124-FR, November.
- Anderson J.A. and Blumenthal D.L. (1991) The airborne sampling program for the 1990 Navajo Generating Station Visibility Study. Draft final report prepared for the Salt River Project, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, STI-99263-1147-DFR, May.
- Hansen P.W., Mercado J.M., and Blumenthal D.L. (1991) San Luis Obispo County Regional Ozone Study airborne air quality measurements performed by STI aircraft. Draft final report prepared for Pacific Gas and Electric Company, San Francisco, CA, and San Luis Obispo Air Pollution Control District, San Luis Obispo, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90053-1144-DFR, April.
- Hansen P.W., Mercado J.M., and Blumenthal D.L. (1991) San Luis Obispo County Regional Ozone Study airborne air quality measurements performed by STI aircraft. Appendix A. Data volume prepared for Pacific Gas and Electric Company, San Francisco, CA, and San Luis Obispo Air Pollution Control District, San Luis Obispo, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90053-1030-DV, February.
- Richards L.W. and Blumenthal D.L. (1990) Navajo Generating Station Visibility Study preliminary report. Working draft no. 4 for review purposes. Report prepared for Salt River Project, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, STI-99281-1011-WD4, August 14.
- Hering S.V. and Blumenthal D.L. (1989) Southern California Air Quality Study (SCAQS) description of measurement activities. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, Agreement No. A5-157-32, STI-96030-810-FR, December.
- Blumenthal D.L., Prins E.M., Main H.H., Prouty J.D., Cleary P.G., Lurmann F.W., Start G.E., Ricks N.R., and Thuillier R. (1989) Working draft no. 2, preliminary field program plan for the San Joaquin Valley Air Quality Study and AUSPEX. Report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-99092-918-D, November.
- Blumenthal D.L., Roberts P.T., Anderson J.A., Knuth W.R., and Koos J.C. (1989) Summary field report for the measurement of pollutant and meteorological boundary conditions - technical support study number 10. Report prepared for the San Joaquin Valley Air Pollution Study Agency, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-98030-815-IR, May.
- Ireson R.B., Roberts P.T., Roth P.M., Chinkin L.R., Blumenthal D.L., Eisinger D.S., Gardner L., Haney J.L., Mahoney L.A., and Yocke M.A. (1988) Scoping study for data collection and urban airshed model performance evaluation in the San Diego air basin, volume I: summary and recommendations; volume II: technical assessment. Reports prepared for the San Diego County Air Pollution Control District, San Diego, CA, by Systems Applications, Inc., San Rafael, CA, SAI-SYSAPP-88/127a, b, December.
- Yocke M.A., Ireson R.G., Eisinger D.S., Gardner L.A., Chinkin L.R., Haney J.L., Mahoney L.A., Roberts P.T., and Blumenthal D.L. (1988) Scoping study for data collection and urban airshed model performance evaluation in the San Diego Air Basin, volume I: summary and recommendations, volume II: technical assessment.

Reports prepared for the County of San Diego, San Diego, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/201a, b.

- Roberts P.T., Chinkin L.R., Yocke M.A., Souten D.R., MacArthur R.S., Blumenthal D., and Roth P. (1988) San Joaquin Valley Air Pollution Study, phase two modeling and analysis. Report prepared for San Joaquin Valley Air Pollution Study Agency and California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/072.
- Watson J.G., Chow J.C., Richards L.W., Roberts P.T., Blumenthal D.L., Yocke M., and Souten D. (1988) Work plan for the San Joaquin Valley Air Quality Study, phase II, PM₁₀ modeling and analysis. Report prepared for San Joaquin Valley Air Pollution Study Agency, Sacramento, CA, by Desert Research Institute, Reno, NV, Sonoma Technology, Inc., Santa Rosa, CA, and Systems Applications, Inc., San Rafael, CA, Contract No. JPA 88-1, STI-98020-PM₁₀-WP, September.
- Blumenthal D.L., Roberts P.T., Smith T.B., and Richards L.W. (1988) Work plan for the measurement of pollutant and meteorological boundary conditions - technical support study number 10. Report prepared for the San Joaquin Valley Air Pollution Study Agency, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-98030-806-WP, May.
- Blumenthal D.L. and Roth P. (1988) Rescoping of the San Joaquin Valley Air Quality Study (SJVAQS): a summary description. Report prepared for the San Joaquin Valley Air Pollution Study Agency, Sacramento, CA, April.
- Roth P.M., Blumenthal D.L., Roberts P.T., Watson J.G., Yocke M.A., Souten D.R., Ireson R.G., Chinkin L.R., Whitten G.Z., Daly C., and Smith T.B. (1988) A proposed concept and scope for the San Joaquin Valley Air Quality Study. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-96050-710-FR, February.
- Trijonis J., McGown M., Pitchford M., Blumenthal D.L., Roberts P.T., White W., Macias E., Weiss R., Waggoner A., Watson J., Chow J.C., and Flocchini R. (1988) Resolve Project: Visibility conditions and causes of visibility degradation in the Mojave Desert of California. Final report prepared for Naval Weapons Center, China Lake, CA, by Sante Fe Research Corporation, Contract No. N60530-84-C-0223, NWC TP6869, July.
- Blumenthal D.L. and Stoelting M. (1987) SCAQS aerosol data acquisition system. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-96040-713-FR, November.
- Blumenthal D.L., Watson J.G., and Roberts P.T. (1987) Southern California Air Quality Study (SCAQS) program plan. Report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-96030-708R, Agreement No. A5-157-32, June.
- Richards L.W., Anderson J.A., Alexander N.L., Blumenthal D.L., Knuth W.R., and McDonald J.A. (1987) Characterization of the reactants, mechanisms, and species in South Coast air basin cloudwater. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94120-606-12FR, Contract No. A4-032-32, January.
- Watson J.G., Gertler A.W., Prowell G.H., Chow J.C., Hering S.V., Richards L.W., and Blumenthal D.L. (1987) Causes of secondary aerosol in the San Joaquin Valley determined from the WOGA aerosol data base. Final report prepared for Western Oil and Gas Association, Los Angeles, CA, by Desert Research Institute, Reno, NV, DRI Document No. 6687.4F1.

- Watson J.G., Dea J.Y., Blumenthal D.L., and Lehrman D.E. (1987) WOGA aerosol database description. Report prepared for Western Oil and Gas Association, Los Angeles, CA, by Desert Research Institute, Reno NV, DRI 6687.3F2.
- Blumenthal D.L., Smith T.B., Lehrman D.E., Alexander N.L., Lurmann F., and Godden D. (1986) Analysis of aerometric and meteorological data for the Ventura County Region. Final report prepared for the Western Oil and Gas Association, Glendale, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90094-511-FR, Contract No. 83-8.0.05(3)-14-01-SOT.
- Blumenthal D.L., Smith T.B., Lehrman D.E., Rasmussen R.A., Whitten G.Z., and Baxter R.A. (1985) Southern San Joaquin Valley Ozone Study. Final report prepared for the Western Oil and Gas Association, Glendale, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94100-510-FR, Contract No. 84-8.0.05(2)-07-01.
- Hering S.V. and Blumenthal D.L. (1985) Fog sampler intercomparison study. Final report prepared for the Coordinating Research Council, Atlanta, GA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-11-90063-308-FR.
- Richards L.W., Anderson J.A., Blumenthal D.L., and McDonald J.A. (1985) Characterization of the composition and three dimensional distribution of acidity in southern California clouds. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90083-506-16FR, NTIS No. PB85223014/AS, Contract No. A2-125-32, March.
- Smith T.B., Lehrman D.E., Knuth W.R., and Blumenthal D.L. (1985) Climatological, meteorological, and dispersion study of regional and selected local environments of northern California, Volume I: technical report. Report prepared for OptiMetrics, Inc. and U.S. Army Atmospheric Sciences Laboratory by Sonoma Technology, Inc., Santa Rosa, CA, STI-90034-403-FR.
- Smith T.B., Lehrman D.E., Knuth W.R., and Blumenthal D.L. (1985) Climatological, meteorological, and dispersion study of regional and selected local environments of northern California, Volume II: appendices. Report prepared for OptiMetrics, Inc. and U.S. Army Atmospheric Sciences Laboratory by Sonoma Technology, Inc., Santa Rosa, CA, STI-90034-403-FR.
- Blumenthal D.L. and Trijonis J.C. (1984) Visibility monitoring in the southern California desert. Report prepared for the U.S. Department of Defense, Research on Operations-Limiting Visual Extinction (RESOLVE Protocol, Second Update) by Naval Weapons Center, China Lake, CA, NWC TP 6566.
- Anderson J.A. and Blumenthal D.L. (1984) Particle sampling program for the KOCH Carbon Carson Storage Facility. Final report prepared for KOCH Carbon, Inc. by Sonoma Technology, Inc., Santa Rosa, CA, STI-90054-508-FR.
- Anderson J.A., McDonald J.A., and Blumenthal D.L. (1984) Aircraft measurements for summer 1984 SCCAMP Exploratory Program. Final report prepared for the Western Oil and Gas Association, Glendale, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94130-407-FR, Contract No. 84-8.0.10(1)-01-04-SOT.
- Watson J.G., Richards L.W., and Blumenthal D.L. (1984) Workplan for the analysis of the WOGA aerosol data base. Prepared for Western Oil and Gas Association, Los Angeles, CA, by Desert Research Institute, Reno, NV.
- Hering S.V. and Blumenthal D.L. (1983) Fog intercomparison study - data volume. Report prepared for the Coordinating Research Council, Atlanta, GA, December.

- Lehrman D.E., Blumenthal D.L., and Countess R.J. (1983) Ventura County ozone transport study. Final report prepared for the Western Oil and Gas Association, Glendale, CA.
- Richards L.W., Anderson J.A., Blumenthal D.L., Brandt A.A., McDonald J.A., and Waters N. (1983) Source Emissions and Plume Characterization Study (SEAPC). Final report prepared for Salt River Project, Phoenix, AZ, by Meteorology Research Institute, Altadena, CA, MRI-81-R1812, January.
- Richards L.W., Anderson J.A., Blumenthal D.L., Duckhorn S.L., and McDonald J.A. (1983) Characterization of reactants, reaction mechanisms, and reaction products leading to extreme acid rain and acid aerosol conditions in southern California. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-83 ES-200, Contract No. AO-140-32, NTIS No. PB 83-252825, April.
- Blumenthal D.L., Richards L.W., Macias E.S., Bergstrom R.W., and Bhardwaja P.S. (1982) The chemistry, physics, and optical properties of plumes and background air in the southwest United States. VISTTA interim report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, Contract No. 68-02-3225, December.
- Blumenthal D.L., Keifer W.S., and McDonald J.A. (1981) Aircraft measurements of pollutants and meteorological parameters during the Sulfate Regional Experiment (SURE) Program. Report prepared by EPRI, Palo Alto, CA, EPRI EA-1909, Project 862-3.
- Zwicker J.O., Macias E.S., Anderson J.A., Blumenthal D.L., Hering S.V., and Ouimette J.R. (1981) Chemistry and visual impact of the plumes from the Four Corners power plant and San Manuel copper smelter. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, Contract No. 68-02-3225.
- Stith J.L., Blumenthal D.L., and Anderson J.A. (1980) Characterization of scrubbed and unscrubbed power plant plumes. Report prepared for the Aerosol Research Branch, U.S. Environmental Protection Agency, Research Triangle Park, NC, by Meteorology Research Institute, Altadena, CA, MRI-79-R-1726, February.
- Keifer W.S., Blumenthal D.L., May M.L., Giroux H.D., White W.H., Ogren J.A., and Ollison W.M. (1979) Ambient measurement and monitoring methodology for NO₂, NO and other NO_x-related compounds: summary and evaluation. Technical report submitted to American Petroleum Institute, Washington, DC, by Meteorology Research, Inc., MRI 78 FR-1542, March.
- Macias E.S., Blumenthal D.L., Anderson J.A., and Cantrell B.K. (1979) Characterization of visibility-reducing aerosols in the southwestern United States: interim report on Project VISTTA. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Meteorology Research Institute, Altadena, CA, MRI IR-1585, January.
- Ogren J.A., Blumenthal D.L., and Vanderpol A.H. (1977) Oxidant measurements in western power plant plumes. Final report prepared by EPRI, Palo Alto, CA, EPRI EA-421, Project 861-1, July.
- White W.H., Anderson J.A., Knuth W.R., Blumenthal D.L., Hsiung J.C., and Husar R.B. (1976) Midwest interstate sulfur transformation and transport project: aerial measurements of urban and power plant plumes, summer, 1974. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, EPA-600/3-76-110, November.
- Blumenthal D.L. and Ogren J.A. (1976) Pollutant characterization over ocean during offshore flow regime. Report Preliminary prepared for California Air Resources Board, Sacramento, CA, by Meteorology Research, Inc., Altadena, CA, MRI 76 R-1460, Contract No. A5-064-87, October.

- Ogren J.A., Blumenthal D.L., White W.H., Tesche T.W., Yocke M.A., and Liu M.K. (1976) Determination of the feasibility of ozone formation in power plant plumes. Final report prepared by EPRI, Palo Alto, CA, EPRI EA-307, Project 572-1, Vol. II.
- Ogren J.A., Anderson J.A., and Blumenthal D.L. (1976) Pollutant measurements in plumes from power plants and cities. Project MISTT Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, July.
- Blumenthal D.L., Smith T.B., White W.H., Marsh S.L., Ensor D.S., Husar R.B., McMurry P.S., Heisler S.L., and Owens P. (1974) Three-dimensional pollutant gradient study - 1972-1973 program. Report prepared for the California Air Resources Board, Sacramento, CA, by Meteorology Research, Inc., Altadena, CA, MRI-74-FR-1262, [NTIS PB 241982/66].
- Blumenthal D.L., White W.H., Peace R.L., and Smith T.B. (1974) Determination of the feasibility of the long-range transport of ozone or ozone precursors. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, EPA-450/3-74-061, November.
- Blumenthal D.L. and Smith T.B. (1972) Aerosol characterization program preliminary airborne sampling program. Report prepared for the North American Rockwell Science Center, Thousand Oaks, CA, by Meteorology Research, Inc., January.
- Smith T.B., Blumenthal D.L., Stinson J.R., and Mirabella V.A. (1972) Climatological wind survey for aerosol characterization program. Report prepared for the North American Rockwell Science Center, Thousand Oaks, CA, by Meteorology Research, Inc., January.