

## Journal Articles

- Mortimer K., Neugebauer R., Lurmann F., Alcorn S., Balmes J., and Tager I. (2008) Early-lifetime exposure to air pollution and allergic sensitization in children with asthma. *J. Asthma* **45**(10), 874-881.
- Moore K., Neugebauer R., Lurmann F., Hall J., V. B., Alcorn S., and Tager I. (2008) Ambient ozone concentrations cause increased hospitalizations for asthma in children an 18-year study in Southern California. *Environ. Health Perspect.* Available on the Internet at <<http://dx.doi.org/>>, doi:10.1289/ehp.10497.
- Mortimer K., Neugebauer R., Lurmann F., Alcorn S., Balmes J., and Tager I. (2008) The effect of prenatal and lifetime exposure to air pollution on the pulmonary function of asthmatic children. *Epidemiology* (accepted).
- Mortimer K., Neugebauer R., Lurmann F., Alcorn S., Balmes J., and Tager I. (2008) Early-lifetime exposure to air pollution and allergic sensitization in children with asthma. *Journal of Asthma* (accepted).
- Tager I.B., Balmes J., Lurmann F., Ngo L., Alcorn S., and Künzli N. (2005) Chronic exposure to ambient ozone on lung function in young adults. *Epidemiology* **16** (6), 751-759.
- Richards L.W., Alcorn, S.H., McDade C., Couture T., Lowenthal D., Chow, J.C., and Watson, J.C. (1999) Optical properties of the San Joaquin Valley aerosol collected during the 1995 Integrated Monitoring Study. *Atmos. Environ.*, **33**, 4787-4795 (STI-1834).

## Meeting Presentations and Conference Proceedings

- Alcorn S.H., Lurmann F.W., and Hammond K. (2008) Spatial characteristics of aerosol and gaseous co-pollutant concentrations during FACES. Presentation at the *ISEE/ISEA Conference, Pasadena, CA, October*, by Sonoma Technology, Inc., Petaluma, CA, and University of California, Berkeley, CA (STI-906023-3600).
- Richards L.W., Alcorn S.H., and Lehrman D. (2004) Task 1.1a: methods evaluation light scattering. Presented to *California Regional PM<sub>10</sub>/PM<sub>2.5</sub> Air Quality Study (CRPAQS) Data Analysis Workshop, Sacramento, CA, March 9-10* by Sonoma Technology, Inc., Petaluma, CA (STI-902321-2499a,b).
- Raffuse S.M., Chan A.C., Funk T.H., Alcorn S.H., Strohm D.E., and Dye T.S. (2004) Incorporating ASOS visibility data in PM<sub>2.5</sub> mapping. Presented at the *U.S. Environmental Protection Agency's 2004 National Air Quality Conference: Your Forecast to Breathe By, Baltimore, MD, February 22* (STI-2492).
- Alcorn S.H., Richards L.W., O'Brien T.E., and Lehrman D. (2003) Comparisons between light scattering and fine particle mass data, California Regional PM<sub>10</sub>/PM<sub>2.5</sub> Air Quality Study (CRPAQS). Poster presentation for the *Annual American Association for Aerosol Research Conference, Anaheim, CA, October 20-24* (STI-902321-2430).
- Alcorn S.H., Draxler R., and Arndt R.L. (1999) HYSPLIT trajectory model training seminar at TNRCC. Presented to the Texas Natural Resource Conservation Commission, Austin, TX, STI 999170-1905.
- Richards L.W., Main H.H., Hurwitt S.B., and Chinkin L.R. (1998) 1995 Integrated Monitoring Study: comparison of light scattering measurements during winter months in the San Joaquin Valley. Presented at *PM<sub>2.5</sub> A Fine Particle Standard, Long Beach, CA, sponsored by Air & Waste Management Association, the U.S. Environmental Protection Agency, and the U.S. Department of Energy, January 28-30* (STI-997216-1803).

Haste T.L., Chinkin L.R., Kumar N., Lurmann F.W., and Hurwitt S.B. (1998) Use of ambient data to evaluate a regional emission inventory for the San Joaquin Valley. Paper and presentation at *PM<sub>2.5</sub> A Fine Particle Standard, Long Beach, CA, sponsored by Air & Waste Management Association, the U.S. Environmental Protection Agency, and the U.S. Department of Energy, January 28-30* (STI-997211-1806, STI-997211-1794).

Richards L.W., Dye T.S., Hurwitt S., Allen G., and Oh J.A. (1997) ASOS visibility sensor data as an indicator of PM and haze. Paper presented at the *Air & Waste Management Association/American Geophysical Union Specialty Conference on Visual Air Quality, Aerosols and Radiation Balance, Bartlett, NH, September* (STI 1825).

### **Formal Reports**

Lurmann F.W., Vaughn D.L., and Alcorn S.H. (2007) Intra-community variability in fine particulate matter in CHS communities. Draft final report prepared for the University of Southern California, Keck School of Medicine, Department of Preventive Medicine, Los Angeles, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906031-3172-DFR, May.

Tager I., Hammond S.K., Balmes J., Mann J., Mortimer K., Neugebauer R., van der Laan M., Lurmann F., Roberts P., Alcorn S., Vaughn D., Margolis H., and Macher J. (2005) Fresno Asthmatic Children's Environment Study (FACES). Final report prepared for the California Air Resources Board, Research Division, Sacramento, CA, by the University of California, Berkeley, Berkeley, CA; Sonoma Technology, Inc., Petaluma, CA; California Air Resources Board, Sacramento, CA; and California Department of Health Services, Richmond, CA, ARB Contract No. 99-322, December.

Peters J.M., Avol E., Berhane K., Gauderman J., Gilliland F., Jerrett M., Kunzli N., London S., McConnell R., Navidi W., Rappaport E., Thomas D., Lurmann F.W., Roberts P.T., Alcorn S.H., Funk T., Gong H., Linn W.S., Cass G., and Margolis H. (2004) Epidemiologic investigation to identify chronic effects of ambient pollutants in southern California. Final report prepared for the California Air Resources Board and the California Environmental Protection Agency by the University of Southern California, Department of Preventative Medicine, Los Angeles, CA, Sonoma Technology, Inc., Petaluma, CA, Los Amigos Research and Education Institute, Downey, CA, and Technical and Business Systems, Santa Rosa, CA, Contract No. 94-331, May. Available on the Internet at <<http://www.arb.ca.gov/research/abstracts/94-331.htm>> last accessed August 18, 2004.

Alcorn S.H. and Lurmann F.W. (2003) Southern California Children's Health Study exposure database. Final report prepared for the University of Southern California, School of Medicine, Los Angeles, CA, by Sonoma Technology, Inc., Petaluma, CA, 95230-2453-FR2, December.

Alcorn S.H., Prouty J.D., Knoderer C.A., Dye T.S., and Richards L.W. (2003) Automated Surface Observing Systems (ASOS): Section 2 - data collections and processing methods applied to 1-minute ASOS data. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434b, October.

Alcorn S.H., O'Brien T.E., Richards L.W., and Dye T.S. (2003) Automated Surface Observing Systems (ASOS): Section 3 - comparisons between ASOS light scattering data and continuous PM<sub>2.5</sub> measurements. Report prepared for the Center for Air Pollution Impact and Trend Analysis, Washington University, St. Louis, MO, by Sonoma Technology, Inc., Petaluma, CA, STI-902180-2434c, October.

- 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.
- 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.
- Roberts P.T., Alcorn S.H., Anderson C.B., Funk T.H., Chinkin L.R., and Main H.H. (2000) Northeast Gulf of Mexico ozone scoping study. Report prepared for Louisiana Mid-Continent Oil and Gas Association, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-999400-1930-FR, February.
- Lurmann F.W., Hall J.V., Kleinman M., Chinkin L.R., Brajer V., Meacher D., Mummery F., Arndt R.L., Funk T.H., Alcorn S.H., and Kumar N. (1999) Assessment of the health benefits of improving air quality in Houston, TX. Prepared for the City of Houston, TX, by Sonoma Technology, Inc., Petaluma, CA, California State University, Fullerton, CA, and University of California, Irvine, CA, STI-998460-1875-FR, November.
- Main H.H., Alcorn S.H., and Roberts P.T. (1999) Characteristics of volatile organic compounds in the Mid-Atlantic region. Report prepared for the Mid-Atlantic Regional Air Management Association, Baltimore, MD, by Sonoma Technology, Inc., Petaluma, CA, STI-998482-1869-FR2, November.
- Alcorn S.H., Arndt R.L., and Chinkin L.R. (1999) HYSPLIT interactive and batchmode user's guide. Prepared for Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-999170-1904, August.
- Alcorn S.H., Roberts P.T., and Main H.H. (1999) Comparison of 8-hr and 1-hr ozone exceedances in the Mid-Atlantic Region. Prepared for the Mid-Atlantic Regional Air Management Association, Baltimore, MD, by Sonoma Technology, Inc., Petaluma, CA, STI-998482-1874-FR2, July.
- Alcorn S.H. and Richards L.W. (1999) Particulate matter species concentration data processing. Report prepared for Arizona Department of Environmental Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-999110-1889-FR, June.
- Kwiatkowski J.J., Hughes G.B., Dye T.S., Anderson C.B., and Hurwitt S.B. (1999) Summary of 8-hr ozone equation development for the air districts of Sacramento, Yolo-Solano, and Placer. Report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998164-1881-FR, May.
- Main H.H., Hurwitt S.B., and Roberts P.T. (1999) Spatial and temporal characteristics of California PAMS and long-term trend site VOC data (1990-1997). Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998241-1883-FR, May.
- Wittig A.E., Main H.H., Roberts P.T., and Hurwitt S.B. (1999) Analysis of PAMS data in California volume III: trends analysis of California PAMS and long-term trend air quality data (1987-1997). Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998393-1885-FR, May.

- Chinkin L.R., Main H.H., Anderson C.B., Coe D.L., Haste T.L., Hurwitt S., and Kumar N. (1999) Study of air quality conditions including ozone formation, emission inventory evaluation, and mitigation measures for Crittenden County, Arkansas. Report prepared for the Arkansas Department of Pollution Control and Ecology, Little Rock, AR, by Sonoma Technology, Inc., Petaluma, CA, STI-998310-1837-FR, March.
- Main H.H., Roberts P.T., and Hurwitt S.B. (1999) Validation of PAMS VOC data in the Mid-Atlantic region. Report prepared for the Mid-Atlantic Regional Air Management Association, Baltimore, MD, by Sonoma Technology, Inc., Petaluma, CA, STI-998481-1835-FR, February.
- Roberts P.T., Main H.H., and Hurwitt S.B. (1999) Technical assistance to MARAMA on EPA Cumulative Exposure Project (CEP): review of air toxics modeling. Report prepared for Mid-Atlantic Regional Air Management Association, Baltimore, MD, by Sonoma Technology, Inc., Petaluma, CA, STI-998561-1853-FR, January.
- Chinkin L.R., Main H.H., Hurwitt S., Haste T.L., Coe D.L., and Kumar N. (1998) A study of air quality conditions including emissions inventory, ozone formation, PM<sub>10</sub> generation, and mitigation measures for Mendocino County, California. Report prepared for the Mendocino County Air Quality Management District, Ukiah, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998080-1816-FR, November.
- Hurwitt S.B. and Richards L.W. (1998) Particulate matter species concentration data processing. Report prepared for the Arizona Department of Environmental Air Quality, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-998430-1827-FR, September.
- Haste T.L., Chinkin L.R., Kumar N., Lurmann F.W., and Hurwitt S.B. (1998) Use of ambient data collected during IMS95 to evaluate a regional emission inventory for the San Joaquin Valley. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, c/o the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997211-1800-FR, July.
- Main H.H., Richards L.W., Hurwitt S.B., and Chinkin L.R. (1998) Characterization of the spatial and temporal patterns of visibility in the San Joaquin Valley during IMS95. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, c/o the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997217-1778-FR, July.
- Richards L.W., Hurwitt S.B., Main H.H., and Chinkin L.R. (1998) Characterization of the validity of light-scattering measurements during the 1995 Integrated Monitoring Study. Report prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997216-1796-FR, July.
- Richards L.W., Prouty J.D., and Hurwitt S.B. (1997) Analysis of ASOS data and development of data processing software. Draft final report prepared for Systems Applications International, San Rafael, CA, by Sonoma Technology, Inc., Santa Rosa, CA, 996232-1753-DFR, EPA Work Assignment 3-5, Contract No. 63D30064, September.
- Dye T.S., Ray S.E., MacDonald C.P., Kwiatkowski J.J., Hurwitt S., and Chinkin L.R. (1997) Summary of ozone forecasting for the air districts of Sacramento, Yolo-Solano, and Placer for the 1997 season. Final report prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997122-1768-FR, December.