

Book Chapters

- Pederson J.R., Roberts P.T., and Main H.H. (1994) Measuring boundary conditions: initial strategies, field testing, and recommendations. 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, 561-586.
- Roberts P.T., Lindsey C.G., and Smith T.B. (1994) Analyses of San Joaquin Valley air quality and meteorology. 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, 483-528.
- White W.H. and Roberts P.T. (1980) On the nature and origins of visibility-reducing aerosols in the Los Angeles air basin. In *The Character and Origins of Smog Aerosols, A Digest of Results from the California Aerosol Characterization Experiment (ACHEX)*, G.M. Hidy, et al., eds., 715-754.

Patents

Patents applied for and issued in coal gasification, pollution control, and high pressure reactor design.

Journal Articles

- Pasch A.N., MacDonald C.P., Gilliam R.C., Knoderer C.A., and Roberts P.T. (2011) Meteorological characteristics associated with PM_{2.5} air pollution in Cleveland, Ohio, during the 2009-2010 Cleveland Multiple Air Pollutants Study. *Atmos. Environ.* **45**, 7026-7035 (STI-909032-3910). doi: 10.1016/j.atmosenv.2011.09.065. Available on the Internet at <http://www.sciencedirect.com/science/article/pii/S1352231011010284>.
- Brown S.G., Frankel A., Raffuse S.M., Roberts P.T., Hafner H.R., and Anderson D.J. (2007) Source apportionment of fine particulate matter in Phoenix, AZ, using positive matrix factorization. *J. Air and Waste Manag. Assoc.* **57**, 741-752 (STI-2675).
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- Davidson C.I., Chang D.P.Y., Dalis A., Ehrman S.H., Heisler S.L., Hidy G.M., Lall A.A., Lesniewski T., McMurry P.H., Pratsinis S.E., Roberts D.L., Roberts P.T., Rong W., Sislian P., Venkataraman C., Wang C.-S., Windeler R.S., and Xiong C. (2007) The aerosol community mourns the loss of a giant. *Aerosol Sci. Technol.* **41**, 895-897 (doi: 10.1080/02786820701604735).
- Lurmann F.W., Brown S.G., McCarthy M.C., and Roberts P.T. (2006) Processes influencing secondary aerosol formation in the San Joaquin Valley during winter. *J. Air & Waste Manag. Assoc.* **56**, 1679-1693 (STI-902331-2661).
- MacDonald C.P., McCarthy M.C., Dye T.S., Wheeler N.J.M., Hafner H.R., and Roberts P.T. (2006) Transport and dispersion during wintertime particulate matter episodes in the San Joaquin Valley, California. *J. Air & Waste Manag. Assoc.* **56**, 961-976 (STI-902329-2660).
- McCarthy M.C., Eisinger D.S., Hafner H.R., Chinkin L.R., Roberts P.T., Black K.N., Clark N.N., McMurry P.H., and Winer A.M. (2006) Particulate matter: a strategic vision for transportation-related research. *Environ. Sci. Technol.* **40** (18), 5593-5599 (STI-904750-2843). Available on the Internet at <http://pubs.acs.org/doi/abs/10.1021/es062767i>.

- Brown S.G., Roberts P.T., McCarthy M.C., Lurmann F.W., and Hyslop N.P. (2006) Wintertime vertical variations in particulate matter (PM) and precursor concentrations in the San Joaquin Valley during the California Regional Coarse PM/Fine PM Air Quality Study. *J. Air & Waste Manag. Assoc.* **56** (9), 1267-1277 (STI-902326-2659).
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- Reissell A., MacDonald C., Roberts P., and Arey J. (2003) Characterization of biogenic volatile organic compounds and meteorology at Azusa during the SCOS97-NARSTO. *Atmos. Environ.* **37** (Supplement 2), 181-196.
- Chinkin L.R., Coe D.L., Funk T.H., Hafner H.R., Roberts P.T., Ryan P.A., and Lawson D.R. (2003) Weekday versus weekend emissions activity patterns for ozone precursor emissions in California's South Coast Air Basin. *J. Air & Waste Manag. Assoc.* **53**, 829-843 (STI-999679-2225).
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Meeting Presentations and Conference Proceedings

- DeWinter J.L., Larkin N.K., Strand T.T., Raffuse S.M., Brown S.G., Craig K.C., and Roberts P.T. (2011) Mitigating the impact of prescribed burning in the continental United States using trends in synoptic scale transport to the Arctic region. Presented at the *Air & Waste Management Association, Greenhouse Gas Strategies in a Changing Climate, San Francisco, CA, November 17* by Sonoma Technology, Petaluma, CA, and the USDA Forest Service Pacific Northwest Research Station, Seattle, WA (ST-4148).
- Dye T.S., Roberts P.T., Chan A.C., and Alrick D.M. (2011) Low-cost sensing by citizens and community groups: current status and opportunities. Presented to the U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910216-4278, November 10.
- Roberts P.T., Brown S.G., DeWinter J.L., and McCarthy M.C. (2011) Changes in MSATs at near-roadway schools after the expansion of US 95 in Las Vegas, Nevada. Presented for the U.S. Environmental Protection Agency Region 9's Children's Health Month, San Francisco, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-4216, October 13.
- Brown S.G., Roberts P.T., Lee T., and Collett J. (2011) Progression of carbonaceous aerosol concentrations next to a major freeway in Las Vegas, Nevada. Presented at the *10th International Conference on Carbonaceous Particles in the Atmosphere, Vienna, Austria, June 26-29*, by Sonoma Technology, Inc., Petaluma, California, and Colorado State University, Fort Collins, Colorado (STI-4051).
- Reid S.B., Roberts P.T., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2011) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Poster presented at the *21st CRC Real World Emissions Workshop, San Diego, CA, March 20-23*, by Sonoma Technology, Inc., Petaluma, California, and Arizona Department of Transportation, Phoenix, AZ (STI-4105).
- MacDonald C.P., Pasch A.N., Gilliam R., Knoderer C.A., Roberts P.T., and Norris G. (2011) Use of a radar wind profiler and sodar to characterize PM_{2.5} air pollution in Cleveland, Ohio. Presented at the *National Air Quality Conferences, San Diego, California, March 7-10* by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC (STI-4070).

- Wheeler N., Hafner H., Roberts P., Craig K., MacDonald C., Gray E., and Reid S. (2011) Design recommendations for the three-state pilot study. Presented at the *Federal Leadership Forum, Denver, CO, January 19* by Sonoma Technology, Inc., Petaluma, CA (STI-910208-4079).
- DeWinter J.L., Larkin N.K., Strand T.T., Raffuse S.M., Brown S.G., Craig K.C., Roberts P.T., and Draxler R.R. (2010) Climatology of air mass transport to the Arctic from locations of prescribed burning in the United States. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 13-17* by Sonoma Technology, Inc., Petaluma, CA, and U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-3996).
- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. (2010) Evaluating the use of many low-cost sensors for monitoring NO₂ gradients. Presented to *NACAA Monitoring Steering Committee, San Francisco, CA, December 1* (STI-4044).
- Roberts P.T., Brown S., DeWinter J., and McCarthy M. (2010) Changes in MSATs at near-roadway schools after the expansion of US 95 in Las Vegas, Nevada. Presented at the *CRC Mobile Source Air Toxics Conference, Sacramento, CA, November 30-December 2* (STI-620000-4045).
- Brown S., Roberts P., DeWinter J., Lee T., and Collett J. (2010) Patterns of wintertime carbonaceous aerosol next to a freeway in Las Vegas, Nevada. Paper presented at the *29th Annual AAAR Conference, Portland, OR, October 25-29* by Sonoma Technology, Inc., Petaluma, CA, and Colorado State University, Fort Collins, CO (STI 3872).
- DeWinter J.L., Raffuse S.M., Brown S.G., Craig K.J., Roberts P.T., Larkin N.K., and Strand T.T. (2010) Climatology of air mass transport to the Arctic from locations of prescribed burning in the United States. Poster presented at the *29th Annual AAAR Conference, Portland, OR, October 25-29* by Sonoma Technology, Inc., Petaluma, CA and U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-4001).
- DeWinter J.L., Brown S.G., McCarthy M.C., Vaughn D.L., and Roberts P.T. (2010) Influence of US 95 traffic on outdoor black carbon concentrations at three near-road schools in Las Vegas, NV. Poster presented at the *29th Annual AAAR Conference, Portland, OR, October 25-29* by Sonoma Technology, Inc., Petaluma, CA (STI-4006).
- Raffuse S.M., Larkin N.K., Strand T.T., DeWinter J.L., Brown S.G., Craig K.J., and Roberts P.T. (2010) Identifying conditions necessary for CONUS fires to impact the Arctic. Poster presented at the *3rd Fire Behavior and Fuels Conference, Spokane, WA, October 28* by Sonoma Technology, Inc., Petaluma, CA, and U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-910020-4005).
- Reid S.B., Eisinger D.S., Roberts P.T., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2010) Field study of PM_{2.5} emissions from a road-widening project. Paper presented at the *19th International Emissions Inventory Conference, September 29, San Antonio, TX* (STI-3959).
- Brown S.G., McCarthy M.C., DeWinter J.L., Roberts P.T., Lee T., and Jeffrey L. Collett J. (2010) Characterization of aerosol at several near-roadway schools in Las Vegas, NV. Presented at the *2010 International Aerosol Conference, Helsinki, Finland, September 3, 2010* by Sonoma Technology, Inc., Petaluma, CA and Colorado State University, Fort Collins, CO (STI-3947).
- Roberts P.T., Brown S.G., DeWinter J.L., and McCarthy M.C. (2010) Changes in MSATs at near-roadway schools after the expansion of US 95 in Las Vegas, Nevada. Presented at the *Northern Transportation & Air Quality Summit 2010, Cambridge, MA, August 24-26* by Sonoma Technology, Inc., Petaluma, CA (STI-906034-3930).

- Brown S.G., Roberts P.T., Lee T., and Collett J. (2010) Analysis of near-roadway carbonaceous aerosol in Las Vegas, Nevada, Presented to *Washington University, St. Louis, MO, July 2* by Sonoma Technology, Inc., Petaluma, CA, and Colorado State University, Fort Collins, CO (STI-3904).
- Zahn P., Chan A., Jennings C., Dye T., and Roberts P. (2010) Weather and air quality in the Youngstown-Warren region. Video prepared for *Eastgate Regional Council of Governments, June 7*, by Sonoma Technology, Inc., Petaluma, CA (STI-910018-3953). Available on the Internet at http://www.youtube.com/watch?v=e23_yTAyQ9c.
- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. (2010) Evaluating the use of many low-cost sensors for monitoring NO₂ gradients. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3836).
- Roberts P.T., DeWinter J.L., and Brown S.G. (2010) Characterization of a year of near-road NO₂ measurements in Las Vegas, Nevada. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3814).
- Reid S.B., Roberts P.T., Eisinger D.S., Wheeler N.J.M., Bai S., and Chenausky B.T. (2010) Field study of PM_{2.5} emissions from a road-widening project. *CRC On-Road Vehicle Emissions Workshop, San Diego, CA, March 24* (STI-3740).
- Dye T.S. and Roberts P.T. (2009) Monitoring by citizens and it's impact on the air quality community and AIRNow. Presented at the *National Ambient Air Monitoring Conference, Nashville, TN, November 2-5* by Sonoma Technology, Inc., Petaluma, CA (STI-3713).
- Roberts P.T., Brown S.G., McCarthy M.C., DeWinter J.L., and Vaughn D.L. (2009) Variability of black carbon concentrations with variations in truck traffic at two ambient monitoring locations. Poster presented at the *Ambient Air Monitoring Conference, Nashville, Tennessee, November 2-5* (STI-3688).
- Roberts P.T., Brown S., DeWinter J., and McCarthy M. (2009) Near-roadway mobile-source air toxics (MSATs) exposures along U.S. 95 in Las Vegas, Nevada. Presented at the *ORNL National Transportation Research Center, Oak Ridge, TN. STI 906034-3766, November*.
- Brown S.G., Lee T., Roberts P.T., and Collette J.L., Jr. (2009) Initial observations of near-road aerosol with an aerodyne high resolution time of flight aerosol mass spectrometer. Poster presented at the *28th Annual AAAR Conference, Minneapolis, MN, October 26-30* by Sonoma Technology, Inc., Petaluma, CA, and Colorado State University, Fort Collins, CO (STI-3614).
- Landreneau J.V., Ray A.E., Hafner H.R., Roberts P.T., Chan A., Jackson J.A., and Zell E. (2009) Designing an air quality monitoring network for urban centers. Training course presented at the *Curso Regional sobre Aseguramiento de la Calidad de las Mediciones de Inmisiones y Emisiones de Contaminantes de Aire Universidad Nacional, Costa Rica, March 30–April 3, 2009*, by Sonoma Technology, Inc., Petaluma, CA, and Battelle Memorial Institute, Arlington, VA (STI-908078.03).
- Brown S.G., Roberts P.T., DeWinter J.L., Vaughn D.L., and McCarthy M.C. (2009) Characteristics of aerosol and MSATs at schools near U.S. 95 in Las Vegas, Nevada. Presented at the *Air and Waste Management Association's 102nd Annual Conference and Exhibition, Detroit, MI, June 16-19* (STI-3520).

- Roberts P.T., Brown S.G., McCarthy M.C., DeWinter J.L., Landreneau J.V., and Vaughn D.L. (2009) Near roadway pollutant exposures along U.S. 95 in Las Vegas, Nevada. Paper presented at the *US-Korea Conference (UKC2009) on science, technology and entrepreneurship, Raleigh, North Carolina, July 16-19* by Sonoma Technology, Inc., Petaluma, CA (STI-3625).
- Roberts P.T. (2009) Measurement and data analysis approaches to understanding air pollution concentrations in school classrooms (and outdoors at schools too!). Presentation made to the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-3630, June.
- Roberts P.T., McCarthy M.C., and Brown S.G. (2009) Near-roadway mobile-source air toxics (MSATs) exposures along U.S. 95 in Las Vegas, Nevada. Webinar prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-906034.14-3615, April.
- MacDonald C.P. and Roberts P.T. (2009) Meteorological and wave measurements for improving meteorological and air quality modeling (GM-08-04), project kick-off meeting. Presented to the *U.S. Minerals Management Service and Scientific Review Board* by Sonoma Technology, Inc., Petaluma, CA, STI-908059-3540, January.
- Roberts P.T. (2008) Comments and recommendations – Air quality and health for Colombia. Presentation made to Taller Nacional Intersectorial de Salud Ambiental, Bogota D.C., Colombia, by Sonoma Technology, Inc., Petaluma, CA, STI-3529, December.
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Near-roadway mobile-source air toxics (MSATs) exposures along U.S. 95 in Las Vegas, Nevada. Presented at the *CRC Mobile Source Air Toxics Workshop, Phoenix, AZ, December 2*, by Sonoma Technology, Inc., Petaluma, CA (STI-3417).
- Roberts P.T., Lurmann F.W., Vaughn D.L., and Brown S.G. (2008) Near-roadway exposure measurements in the western U.S. (including examples from studies of children, with additions). Presented at the *Near- Roadway & In-Vehicle Exposures Asian Institute of Technology, Pathumthani, Thailand, November 9*, by Sonoma Technology, Inc., Petaluma, CA (STI-3571).
- Brown S.G., Roberts P.T., Vaughn D.L., McCarthy M.C., Lee T., and Collett J.L., Jr. (2008) Characteristics of aerosol at schools near U.S. 95 in Las Vegas, Nevada. Presented at the *AAAR 27th Annual Conference, Orlando, FL, October 23*, by Sonoma Technology, Inc., Petaluma, CA, and Colorado State University, Boulder, CO (STI-3355).
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Near-roadway exposure to air pollution with examples from a study of MSATs at three schools next to U.S. 95 in Las Vegas, NV. Presented at the *Benicia First! Forum on Air Quality and Children's Health, Benicia, CA, September 18* (STI-3447).
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Characteristics of mobile-source air toxics (MSATs) at three schools next to U.S. 95 in Las Vegas, Nevada. Drawn from presentations given at the *Air & Waste Management Association's 101st Annual Conference & Exhibition, Portland, OR, August 28* (STI-906034-3434).
- Brown S.G., Roberts P.T., Vaughn D.L., Lee T., and Collett J.L., Jr. (2008) Comparison of near-roadway carbon measurements in winter in Las Vegas, NV. Poster presented at the *9th International Conference on Carbonaceous Particles in the Atmosphere, Berkeley, CA, August 12-14* (STI-3425).

- Roberts P.T., Lurmann F.W., McCarthy M.C., and Brown S.G. (2008) Near-roadway exposure to air pollution with examples from a study of MSATs at 3 schools next to U.S. 95 in Las Vegas, NV. Presentation made to the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-908039-3413, July.
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Characteristics of mobile-source air toxics (MSATs) at three schools next to U.S. 95 in Las Vegas, Nevada. Presented at the *Air & Waste Management Association's 101st Annual Conference & Exhibition, Portland, OR, June 25* (STI-906034.14-3272).
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Characteristics of mobile-source air toxics (MSATs) across filtration systems at three schools next to U.S. 95 in Las Vegas, Nevada. Presented at the *Air & Waste Management Association's 101st Annual Conference & Exhibition, Portland, OR, June 25* (STI-906034.14-3273).
- Roberts P.T. and Hafner H.R. (2008) Recommendations for data reporting of uncertainty and measurement process characteristics. Presented at the *Air & Waste Management Association's 101st Annual Conference & Exhibition, Portland, OR, June 24-27* (STI-3274).
- Roberts P.T., McCarthy M.C., and Brown S.G. (2008) Lessons learned about mobile source air toxics (MSATs) at three schools next to U.S. 95 in Las Vegas, NV. Presented at the *2008 National Air Quality Conferences, Portland, OR, April 6-9* (STI-3305).
- Roberts P.T. and McCarthy M.C. (2008) Characteristics of mobile-source air toxics (MSATs) at several schools next to U.S. 95 in Las Vegas, NV. Presented at the *18th CRC On-road Vehicle Emissions Workshop, San Diego, CA, March 31-April 2*, by Sonoma Technology, Inc., Petaluma, CA (STI-3265).
- Roberts P.T., Landreneau J.V., Vaughn D.L., and Mohn P.A. (2007) Characteristics of a diesel particulate matter surrogate, black carbon, at several schools next to U.S. 95 in Las Vegas. Poster presented at the *2007 Aerosol Conference, Reno, NV, September 24-28*, by Sonoma Technology, Inc., Petaluma, CA, and the Nevada Department of Transportation, Carson City, NV (STI-3225).
- Turner J.R. and Roberts P.T. (2006) Refining the interpretation of multiwavelength AethalometerTM data. Poster presented at the *National Air Monitoring Conference, Las Vegas, NV, November 6-9*, by Washington University, St. Louis, MO, and Sonoma Technology, Inc., Petaluma, CA (STI-3084).
- Lurmann F.W., Roberts P.T., Vaughn D., Hammond S.K., Perrino C., and Tager I. (2006) Modeling daily exposure of children's exposure to PM, ozone, NO₂, and biological agents in the Fresno Asthma Children's Environment Study (FACES). Poster prepared for *International Conference on Environmental Epidemiology & Exposure, Paris, France, September 2-6* (STI-3019).
- Chinkin L.R., Sullivan D.C., Funk T.H., Hafner H.R., Roberts P.T., and Ryan P.A. (2006) Weekday versus weekend activity patterns for ozone precursor emissions in California's South Coast Air Basin. *AWMA's 99th Annual Conference & Exhibition, New Orleans, LA, June 20-23*, by Sonoma Technology, Inc., Petaluma, CA (STI-2954).
- Roberts P.T. and Vaughn D.L. (2005) Results from air quality monitoring near the San Rafael Rock Quarry. Draft final presentation prepared for the Marin County Board of Supervisors, San Rafael, CA, by Sonoma Technology, Inc., Petaluma, CA, 903660.06-2664, November.

- Brown S.G., Frankel A., Raffuse S.M., Hafner H.R., Roberts P.T., and Anderson B. (2005) Source apportionment of PM_{2.5} at Hercules-Glade, Missouri, using positive matrix factorization. Poster prepared for the *24th Annual American Association for Aerosol Research Conference, Austin, TX, October 17-21*, by Sonoma Technology, Inc., Petaluma, CA, and U.S. Environmental Protection Agency, Region 7 (STI-2739).
- Roberts P.T. (2005) Air quality issues in the western South Coast Air Basin (SoCAB). Presented to the *Santa Monica Airport Commission Annual Environmental Workshop, Santa Monica, CA, May 23*.
- Brown S.G., Frankel A., Hafner H.R., Roberts P.T., and Anderson D.A. (2005) Source apportionment of PM_{2.5} in Phoenix, Arizona, with Positive Matrix Factorization. Poster prepared for the *2005 Particulate Matter Supersites Program and Related Studies: An AAAR International Specialty Conference, February 7-11, Atlanta, GA* (STI-2687).
- Hafner H.R., McCarthy M.C., and Roberts P.T. (2005) Using air toxics monitoring data to quantify mobile source contributions. Presented at the *Transportation Research Board 84th Annual Meeting, Workshop 124: Mobile Source Air Toxics, Washington, DC, January 9* (STI-2685).
- Brown S.G., Roberts P.T., and Hyslop N.P. (2004) Wintertime vertical variations in particulate matter and precursor concentrations in the San Joaquin Valley during the California Regional PM₁₀/PM_{2.5} Air Quality Study. Presented at *Regional and Global Perspectives on Haze: Causes, Consequences and Controversies - Visibility Specialty Conference, Asheville, NC, October 25-29* (STI-2513).
- Brown S.G., Reid S.B., Roberts P.T., Buhr M.P., Funk T.H., Kim E., and Hopke P.K. (2004) Reconciliation of the VOC and NO_x emission inventory with ambient data in the Houston, Texas region. Paper presented at the *U.S. Environmental Protection Agency's 13th Annual Emission Inventory Conference, Clearwater, FL, June 9* (STI-2525).
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