

Journal Articles

- 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).
- Buzcu-Guven B., Brown S.G., Frankel A., Hafner H.R., and Roberts P.T. (2007) Analysis and apportionment of organic carbon and fine particulate matter sources at multiple sites in the Midwestern United States. *J. Air and Waste Manag. Assoc.* **57**, 606-619 (STI-2876).
- 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).
- Roberts P.T., Ward M., Baron R.L., Humble W., Hadzihasanovic M., Cox R., Tapp L., McCammon J., and McCleery R. (2004) Carbon monoxide poisonings resulting from open air exposures to operating motorboats—Lake Havasu City, Arizona, 2003. *Centers for Disease Control and Prevention, MMWR 2004* **53** (15), 314-318.
- 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).
- Lurmann F., Funk T., Hyslop N., Roberts P., Hammond S.K., McConnell R., and Avol E. (2002) Measurement and modeling of personal exposure to ambient air pollution related to motor vehicle emissions. *Epidemiology* **13** (4), S131.
- MacDonald C.P., Roberts P.T., Main H.H., Dye T.S., Coe D.L., and Yarbrough J. (2001) The 1996 Paso del Norte Ozone Study: phenomena that influence the local ozone concentrations. *Sci. Total Environ.* (Special Issue: U.S.-Mexico Transboundary Air Pollution Studies) **276**, Nos. 1-3, 93-110 (STI-1949).

- Funk T.H., Chinkin L.R., Roberts P.T., Saeger M., Mulligan S., Figueroa V.H.P., and Yarbrough J. (2001) Compilation and evaluation of a Paso del Norte emission inventory. *Sci. Total Environ.* (Special Issue: U.S.-Mexico Transboundary Air Pollution Studies) **276, Nos. 1-3**, 135-151 (STI-1942).
- Geyh A.S., Roberts P.T., Lurmann F.W., Schoell B.M., and Avol E.L. (1999) Initial field evaluation of the Harvard active ozone sampler for personal ozone monitoring. *J. Exposure Analy. Environ. Epidemiol.* **2**, 143-149.
- Apel E.C., Calvert J.G., Riemer D., Pos W., Zika R., Kleindienst T.E., Lonneman W.A., Fung K., Fujita E., Shepson P.B., Starn T.K., and Roberts P.T. (1998) Measurements comparison of oxygenated volatile organic compounds at a rural site during the 1995 SOS Nashville Intensive. *J. Geophys. Res.* **103** (D17), 22,295-22,316.
- 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.
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- Dye T.S., Roberts P.T., and Korc M.E. (1995) Observations of transport processes for ozone and ozone precursors during the 1991 Lake Michigan Ozone Study. *J. Appl. Meteorol.* **34**, 1877-1889 (STI-1384).
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- Hsieh C.R. and Roberts P.T. (1985) A laboratory study of agglomeration in coal gasification. *Amer. Chem. Soc., Div. Fuel Chem.* **30**, 3.
- White W.H., Seigneur C., Heinold D.W., Eltgroth M.W., Richards L.W., Roberts P.T., Bhardwaja P.S., Conner W.D., and Wilson W.E., Jr. (1985) Predicting the visibility of chimney plumes: an intercomparison of four models with observations at a well-controlled power plant. *Atmos. Environ.* **19**, 515-528.
- White W.H. and Roberts P.T. (1977) On the nature and origins of visibility-reducing aerosols in the Los Angeles Air Basin. *Atmos. Environ.* **11**, 803-812.
- Roberts P.T. and Friedlander S.K. (1976) Analysis of sulfur in deposited aerosol particles by vaporization and flame photometric detection. *Atmos. Environ.* **10**, 403-408.
- Roberts P.T. and Friedlander S.K. (1976) Photochemical aerosol formation: SO₂, 1 heptene, and NO_x in ambient air. *Environ. Sci. Technol.* **10**, 573-580.
- Roberts P.T. and Friedlander S.K. (1975) Conversion of SO₂ to sulfur particulate in the Los Angeles atmosphere. *Environ. Health Prospect.*, April, 103-112.

Meeting Presentations and Conference Proceedings

- 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).
- 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.
- 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 Aethalometer™ 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).
- 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).
- Wheeler N.J.M., Lurmann F.W., Hafner H.R., Chinkin L.R., Sullivan D.C., and Roberts P.T. (2004) Changing roles of oxides of nitrogen as precursors in photochemistry. Presentation to the *Annual Meeting of the West Coast Section, Air & Waste Management Association, Ventura, CA, May 13*, (STI-2539.)

- Hammond S.K., Perrino C., Tager I.B., Lurmann F.W., Roberts P.T., Vaughn D.L., Eiguren-Fernandez A., and Miguel A.H. (2004) Naphthalene measurement in ambient air using XAD-2 sorbent tubes. Poster presented at *The International State of the Science Workshop on Organic Speciation in Atmospheric Aerosol Research, at Desert Research Institute, Las Vegas, NV, April 5-7*.
- McCarthy M.C., Hafner H.R., and Roberts P.T. (2004) Task 2.4: boundary and background conditions. Presented to *California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) Data Analysis Workshop, Sacramento, CA, March 9-10 (STI-902325-2500)*.
- Brown S.G., Hyslop N.P., Simon E.M., Shields E., and Roberts P.T. (2004) Task 2.5: vertical variations in PM and PM precursor concentrations in the San Joaquin Valley. Presented to *California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) Data Analysis Workshop, Sacramento, CA, March 9-10 (STI-902326-2498)*.
- Lilly M.R., MacDonald C.P., Roberts P.T., Arkinson H.L., and Lehrman D. (2004) Tasks 5.2 and 6.3: the influence of winds and vertical mixing on PM_{2.5} concentrations. Presented to *California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) Data Analysis Workshop, Sacramento, CA, March 9-10* by Sonoma Technology, Inc., Petaluma, CA (STI-902329-2503).
- Roberts P.T. and Vaughn D.L. (2004) Carbon monoxide air quality issues in the Bridgewater Channel, Lake Havasu City. Phase II field study and results. Presented to the City Council, Lake Havasu City, AZ, February 24 (STI-093314-2378).
- MacDonald C.P., Lilly M.A., Roberts P.T., and Richards L.W. (2003) Evaluation of transport of particulate matter and its precursors into and out of the San Joaquin Valley, California: first step, mixing depth. Presented at *American Association for Aerosol Research 2003 Annual Conference, Platform Session 7: California Regional Particulate Air Quality Study, Anaheim, CA, October 22 (STI-902329-2432)*.
- Roberts P.T. and Hyslop N.P. (2003) Air quality impacts of the Santa Monica Airport. Presented to the *Environmental Affairs Committee, Airports Council International-North America Conference, Tampa, FL, September 14 (STI-900410-2000)*.
- Hafner H.R., Hyslop N.P., and Roberts P.T. (2003) Managing and validating data from the California Regional PM₁₀/PM_{2.5} Air Quality Study. Paper and presentation prepared for the *Air & Waste Management Association's 96th Annual Conference & Exhibition, San Diego, CA, June 22-26 (STI-2255)*.
- Hammond S.K., Sugiura M., Noth E.M., Lurmann F.W., Roberts P.T., Hyslop N., Vaughn D., Macher J., Mortimer K., and Tager I. (2003) Concentrations of airborne endotoxin inside and outside homes in the Fresno (CA) Asthmatic Children's Environment Study (FACES). Poster presented at the *2003 American Thoracic Society International Conference, Seattle, WA, May 18-21*.
- Roberts P.T. (2003) Carbon monoxide air quality issues in the Bridgewater Channel, Lake Havasu City. Presented to City Council, Lake Havasu City, AZ, May 13 (903311-2378).
- Hyslop N.P., Lurmann F.W., Vaughan D.L., Roberts P.T., and O'Brien T.E. (2003) Spatial variability of PM exposures as determined in the Fresno Asthmatic Children's Environment Study (FACES). Poster presentation prepared for an *American Association for Aerosol Research meeting, Pittsburgh, PA, March 31-April 4 (STI-2345)*.

- MacDonald C.P., Roberts P.T., Knoderer C.A., Miller D.S., and Hanna S.R. (2003) Boundary layer study in the Western and Central Gulf of Mexico. Presented at the *American Meteorological Society Annual Meeting 12th Conference on Interactions of the Sea and Atmosphere, Long Beach, CA, February 9-13* (STI-998555-2321).
- Hyslop N., O'Brien T., Roberts P., and Lurmann F. (2002) Continuous PM measurements in a rural town in the San Joaquin Valley. In conference proceedings of the *Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, November 14* (STI-999300-2268).
- Hyslop N.P., Lurmann F.W., Roberts P.T., and Vaughn D.L. (2002) Microenvironmental sampling in the Fresno Asthmatic Children's Environment Study (FACES). In Conference proceedings of the *Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, November 14* (STI-900813-2235).
- Brown S.G., Roberts P.T., Buhr M.P., Wheeler N.J.M., and Roney J.A. (2002) Characterization of ozone event-triggered VOC and carbonyl samples in Houston, Texas, in 2001. Presented at the *Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, November 14*, STI-900680- 2234.
- Hafner H.R. and Roberts P.T. (2002) Recommendations for the PAMS network in the Northeast and Mid- Atlantic states. Presented at the *Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, November 13*, STI-900860-2231.
- Lurmann F.W., Funk T.H., Hyslop N.P., Roberts P.T., Wu J., McConnell R., Avol E., and Hammond S.K. (2002) Measurements and modeling of personal exposure to ambient air pollution related to motor vehicle emissions. Presented at the *12th Conference of the International Society of Exposure Analysis, Vancouver, BC, Canada, August 11-15*.
- Roberts P.T., Brown S.G., Main H.H., Buhr M.P., Hyslop N.P., MacDonald C.P., Roney J., Knoderer C.A., and Miller D. (2002) Preliminary VOC, olefin, and conceptual model results for Houston. Presented to the Texas Natural Resource Conservation Commission, Austin, TX, April 4.
- MacDonald C.P., Roberts P.T., Knoderer C.A., and Hanna S. (2002) Estimation of scaling parameters and energy fluxes over the Gulf of Mexico using new observations and using the COARE program. Presented at the *12th Conference on Interaction of the Sea and Atmosphere, 2003 American Meteorological Society Annual Meeting, Long Beach, CA, February 9-13* (STI-998555-2219).
- Buhr M.P. and Roberts P.T. (2002) Measurement of Olefin/NO_x ratios: some initial results. Presented at the *American Meteorological Society Annual Meeting, Orlando, FL, January 17* (STI-901440-2155).
- MacDonald C.P., Buhr M.P., Knoderer C.A., and Roberts P.T. (2002) Three-dimensional distribution of ozone and ozone precursors observed from the Baylor University aircraft. Presented at the *American Meteorological Society Annual Meeting, Orlando, FL, January 17* (STI-2154).
- 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, FL, January 17* (STI-2140).
- MacDonald C.P., Roberts P.T., Knoderer C.A., and Hanna S.R. (2001) Estimation of boundary layer fluxes and profiles over the Gulf of Mexico using new observations and using the COARE program. Paper no. 1.7 presented at the *Fourth conference on coastal atmospheric and oceanic prediction and processes, St. Pete's Beach, FL, November 6-9* (STI-998553-2104).

- Main H.H., Green C.N., Hyslop N.P., and Roberts P.T. (2001) Managing data from the California Regional PM₁₀/PM_{2.5} Air Quality Study. Presented at the *Air & Waste Management Association Regional Haze and Global Radiation Balance, Bend, OR, October 2-5* (STI-2100).
- MacDonald C.P., Dye T.S., and Roberts P.T. (2001) Quality control of the radar profiler wind and RASS virtual temperature data collected during the 1997 Southern California Ozone Study. Presented at *SCOS97-NARSTO Data Analysis Conference, Los Angeles, CA, February 13-15* (STI-2058).
- MacDonald C.P., Dye T.S., and Roberts P.T. (2001) Spatial and temporal observations of the planetary boundary layer during ozone episodes in Southern California. Presented at *SCOS97-NARSTO Data Analysis Conference, Los Angeles, CA, February 13-15* (STI-2057).
- Roberts P.T., MacDonald C.P., Dye T.S., and Hanna S.R. (2000) Boundary layer study in the Western and Central Gulf of Mexico. Presented at the Department of Interior, Mineral Management Services Information Transfer Meeting, New Orleans, LA, December 3-5 (STI-998553-2035).
- Main H.H. and Roberts P.T. (2000) Review of air toxics modeling for the mid-Atlantic region. Paper presented at the Air & Waste Management Association/Environmental Protection Agency International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC, *September 12-14* (STI-1962).
- Main H.H. and Roberts P.T. (2000) The usefulness of PAMS VOC data: examples using data collected in the northeast, mid-Atlantic, and California. Presented at the *Air & Waste Management Association/Environmental Protection Agency International Symposium on Measurement of Toxic and Related Air Products, Research Triangle Park, NC, September 12-14* (STI-1963).
- Roberts P.T. and Hyslop N.P. (2000) Phase I planning study: potential air quality impacts of the Santa Monica Airport. Presented to the City of Santa Monica, CA, September 6 (STI-900410-2000).
- Dye T.S., Roberts P.T., MacDonald C.P., Narayanan M., Hotchi T., and Knoderer C. (2000) Initial analyses and results for the air quality early warning system. Presented to the Technical Working Group, Egyptian Environmental Affairs Agency, Cairo, Egypt, July 31 (STI-900442-1998).
- Roberts P.T., Funk T.H., MacDonald C.P., Main H.H., and Chinkin L.R. (2000) Weekday/weekend ozone observations in the South Coast Air Basin. Presented to California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-999670-1966, April 13.
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Patents

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