

## Journal Articles

- Brown, S.G., Lee, T., Norris, G. A., Roberts, P.T., Collett, J.L. Jr., Paatero, P., and Worsnop, D.R. (2012) Receptor modeling of near-roadway aerosol mass spectrometer data in Las Vegas, Nevada, with EPA PMF. *Atmos. Chem. Phys.* **12**, 309-325 (STI-3873), doi:10.5194/acp-12-309-2012, 2012
- Brown S.G., Lee T., Norris G.A., Roberts P.T., Collett J.L., Jr., and Paatero P. (2009) EPA PMF application to near-roadway aerosol mass spectrometer data in Las Vegas, Nevada. (to be submitted) (STI-3873).
- 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).
- Brown S.G., Frankel A., and Hafner H.R. (2007) Source apportionment of VOCs in the Los Angeles area using positive matrix factorization. *Atmos. Environ.* **41**, 227-237 (STI-2725).
- 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).
- 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).
- Kim E., Brown S.G., Hafner H.R., and Hopke P.K. (2005) Characterization of non-methane volatile organic compounds sources in Houston during 2001 using positive matrix factorization. *Atmos. Environ.* **39**, 5934-5946.
- Brown S., Herckes P., Ashbaugh L., Hannigan M.P., Kreidenweis S.M., and Collett J.L., Jr. (2002) Characterization of organic aerosol in Big Bend National Park, Texas. *Atmos. Environ.* **36** (38), 5807-5818.

## 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).
- Hafner H.R. and Brown S.G. (2011) Data validation workshop. *Prepared for Lake Michigan Air Directors Consortium; presented in Rockford, IL, and Toledo, OH, October 25-28* (STI-911051-4242).
- 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).
- 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).
- 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<sub>2.5</sub> 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).
- Hafner H., O'Brien T.E., Brown S.G., and DeWinter J.L. (2010) Systat: Statistical visualization software. Presented to the Wyoming Department of Environmental Quality, Cheyenne, WY, by Sonoma Technology, Inc., Petaluma, CA, STI-910019-3946, August.
- 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).
- Roberts P.T., DeWinter J.L., and Brown S.G. (2010) Characterization of a year of near-road NO<sub>2</sub> measurements in Las Vegas, Nevada. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3814).
- DeWinter J.L., Brown S.G., O'Brien T.E., and Hafner H.R. (2010) Systat: statistical visualization software. *Lansing, MI, March 31-April 1* STI 908015-3834.
- 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).
- Hafner H., O'Brien T.E., McCarthy M.C., and Brown S.G. (2009) Prescribed analyses of PAMS data collected from 1994 to 2006. Presented to the San Diego Air Pollution Control District, San Diego, CA, STI-908050-3634, June.
- 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).
- Hafner H., O'Brien T.E., and Brown S.G. (2009) SYSTAT: Statistical visualization software. Presented to the San Diego Air Pollution Control District, San Diego, CA, STI-908050-3635, 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.
- 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).

- Wade K.S., Zahn P.H., and Brown S.G. (2008) Application of rotational tools to improve receptor modeling results. Presented at the *AAAR 27th Annual Conference, Orlando, FL, October 23*, by Sonoma Technology, Inc., Petaluma, CA (STI-3353).
- 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).
- Wade K.S., Brown S.G., Turner J.R., and Garlock J.L. (2008) Concentration value uncertainty estimates for source apportionment modeling of chemical speciation network data. Presented at the *Air & Waste Management Association's 101st Annual Conference & Exhibition, Portland, OR, June 24-26* (STI3272).
- 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* (STI906034.14-3273).
- 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) 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).
- Wade K.S., Brown S.G., and Hafner H.R. (2007) Combined air toxics and PM<sub>2.5</sub> component source apportionment for Baltimore. Presented at the *Symposium on Air Quality Measurement Methods and Technology, Air and Waste Management Association, San Francisco, CA, April 30-May 2*, by Sonoma Technology, Inc., Petaluma, CA (STI-3123).
- Brown S.G., Buzcu-Guven B., Frankel A., and Hafner H.R. (2006) Analysis and apportionment of PM<sub>2.5</sub> and organic carbon in the Upper Midwest. Presented at the *Air & Waste Management Association's 99th Annual Conference & Exhibition, New Orleans, LA, June 20-23* by Sonoma Technology, Inc., Petaluma, CA (STI-2809).
- Reid S.B., Brown S.G., McCarthy M.C., and Chinkin L.R. (2006) Comparison of ambient measurements to emissions representations for modeling in California's San Joaquin Valley. Presented to the *U.S. Environmental Protection Agency's 15th Annual Emission Inventory Conference, New Orleans, LA, May 18*, by Sonoma Technology, Inc., Petaluma, CA (STI-2944).
- Hafner H.R., O'Brien T.E., Frankel A.P., McCarthy M.C., and Brown S.G. (2006) 2005 JATAP monitoring project gaseous air toxics data validation and analysis. Presented at the *JATAP Workshop Meeting, Phoenix, AZ, March 6* by Sonoma Technology, Inc., Petaluma, CA (905039.02-2921).
- Hafner H.R., Penfold B.M., and Brown S.G. (2005) Using GIS tools to select suitable DPM monitoring locations: Phoenix, Arizona. Presented at the *2005 Air Toxics Summit, Seeking Solutions for our Rural and Urban Communities, Portland, OR, October 18-19*, by Sonoma Technology, Inc., Petaluma, CA (STI-904234-2755).
- Brown S.G., Frankel A., Raffuse S.M., Hafner H.R., Roberts P.T., and Anderson B. (2005) Source apportionment of PM<sub>2.5</sub> 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).

- Brown S.G., Penfold B.M., and Hafner H.R. (2005) Selecting monitoring locations using GIS-based spatial analysis techniques. Presented at *Air & Waste Management Association Environmental Data Analysis: Assessing Health and Environmental Impacts, Oak Brook, IL, October 4* by Sonoma Technology, Inc., Petaluma, CA (STI-2711).
- Raffuse S.M., Brown S.G., Sullivan D.C., and Chinkin L.R. (2005) Estimating regional contributions to atmospheric haze. Presented at the *2005 ESRI International User Conference, San Diego, CA, July 26* (STI-2649).
- Brown S.G. and Hafner H.R. (2005) Source apportionment using positive matrix factorization of VOCs at a heavily industrialized site in Houston, Texas. Presentation at the *AWMA Annual Conference, Minneapolis, MN, June 23* (STI-900700-2609).
- Brown S.G. and Hafner H.R. (2005) Using VOCdat to validate and process air toxics data. Presentation to the *U.S. Environmental Protection Agency's 15th Annual National Air Quality Systems Conference, San Diego, CA, June 13-17* (STI-905102.08-2752).
- Hafner H.R. and Brown S.G. (2005) Receptor modeling overview. Presentation at the *AWMA Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, April 19-21* (STI-2734).
- Brown S.G., McCarthy M.C., Raffuse S.M., and Hafner H.R. (2005) Assessment of ozone and PM<sub>2.5</sub> exceedances on a national scale. Presentation at the *U.S. Environmental Protection Agency's 2005 National Air Quality Conference: Quality of Air Means Quality of Life, San Francisco, CA, February 12-13* (STI-2647).
- Hafner H.R., Penfold B.M., and Brown S.G. (2005) Using spatial analysis techniques to select monitoring locations. Presentation at the *U.S. Environmental Protection Agency's 2005 National Air Quality Conference: Quality of Air Means Quality of Life, San Francisco, CA, February 12-13* (STI-2645).
- Brown S.G., Reid S.B., Sullivan D.C., and Hafner H.R. (2005) Development of GIS emissions analysis tools to estimate the probability of regional source contributions. Presented at the *2005 Particulate Matter Supersites Program and Related Studies: An AAAR International Specialty Conference, Atlanta, GA, February 7-11* (STI-2694).
- Brown S.G., Frankel A., Hafner H.R., Roberts P.T., and Anderson D.A. (2005) Source apportionment of PM<sub>2.5</sub> 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).
- 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 PM<sub>10</sub>/PM<sub>2.5</sub> Air Quality Study. Presented at *Regional and Global Perspectives on Haze: Causes, Consequences and Controversies - Visibility Specialty Conference, Asheville, NC, October 25-29* by Sonoma Technology, Inc., Petaluma, CA (STI-2513).
- Hafner H.R., Brown S.G., and Anderson D. (2004) Source apportionment of PM<sub>2.5</sub> in Phoenix, Arizona using positive matrix factorization. Presented at *Regional and Global Perspectives on Haze: Causes, Consequences and Controversies - Visibility Specialty Conference, Asheville, NC, October 25-29* by Sonoma Technology, Inc., Petaluma, CA (STI-2512).
- Brown S.G. and Hafner H.R. (2004) Source apportionment of VOCs in the Houston, Texas, area using Positive Matrix Factorization. Paper no. 353 presented at the *Air and Waste Management Association's 97th Annual Conference and Exhibition, Indianapolis, IN, June 22-25* (STI-2415).

- Hafner H.R., Brown S.G., McCarthy M.C., Arkinson H.L., and Sullivan D.C. (2004) Validation and Preliminary Analysis of JATAP Air Toxics Data. Presentation to the Arizona Department of Environmental Quality, Phoenix, AZ, June 11 by Sonoma Technology, Inc., Petaluma, CA, STI-903774-2564.
- Reid S.B., Funk T.H., Sullivan D.C., Stiefer P.S., Arkinson H.L., Brown S.G., and Chinkin L.R. (2004) Research and development of emission inventories for planned burning activities for the Central States Regional Air Planning Association. Paper for the *13th International Emission Inventory Conference "Working for Clean Air in Clearwater"*, Clearwater, FL, June 8-10 (STI-2515).
- 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<sub>x</sub> 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).
- Hafner H.R., McCarthy M.C., Brown S.G., Raffuse S.M., Shields E., Stiefer P.S., and Wheeler N.J. (2004) Workshop on air toxics data analysis. *Prepared for Lake Michigan Air Directors Consortium; presented in Rosemont, IL, June 2-3* (STI-903555).
- Brown S.G., Hafner H.R., and Shields E. (2004) Source apportionment of Detroit air toxics data with positive matrix factorization. Paper no. 41 presented at the *Air and Waste Management Association Symposium on Air Quality Measurement Methods and Technology*, Research Triangle Park, NC, April 19-22 (STI-2450).
- Hafner H.R., Brown S.G., and McCarthy M.C. (2004) An approach to data validation of air toxics data. Paper No. 34 presented at the *Air and Waste Management Association Symposium on Air Quality Measurement Methods and Technology*, Research Triangle Park, NC, April 19-22 (STI-2443).
- Hafner H.R., Brown S.G., Penfold B.M., and Funk T.H. (2004) Use of GIS tool to investigate suitable diesel emissions monitoring locations in Detroit, Michigan. Paper no. 35 presented at the *Air and Waste Management Association Symposium on Air Quality Measurement Methods and Technology*, Research Triangle Park, NC, April 19-22 (STI-2444).
- 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 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-902326-2498).
- Brown S.G. and Hafner H.R. (2003) Source apportionment of VOCs in the Houston, Texas, area. Presented at the *NARSTO Workshop on Innovative Methods for Emission-Inventory Development and Evaluation*, Austin, TX, October 14-16 (STI-2356).
- Brown S.G., Hafner H.R., and Ryan P.A. (2003) Nitrogen deposition into the Casco Bay Estuary, Maine. Paper and presentation prepared for the *Air and Waste Management Association's 96th Annual Conference and Exhibition*, San Diego, CA, June 22-26, 2003 (STI-2327).
- Hafner H.R. and Brown S.G. (2003) Investigating the effect of selected control strategies on ambient hydrocarbon data in the northeastern and mid-Atlantic United States: 1994-2001 trends. Paper and presentation prepared for the *Air and Waste Management Association's 96th Annual Conference and Exhibition*, San Diego, CA, June 22-26 (STI 2250).
- Brown S.G. and Hafner H.R. (2003) Source apportionment of Detroit pilot city air toxics data. Presented at the *National Workshop on Air Toxics Monitoring*, Chicago, IL, May 13-14 (STI-902530-2371).

- Brown S.G., Knoderer C.A., and Hafner H.R. (2003) Meteorological effects on air toxics concentrations in Detroit. Presented at the *National Workshop on Air Toxics Monitoring, Chicago, IL, May 13-14* (STI-902530-2370).
- Hafner H.R. and Brown S.G. (2003) Assessment of elemental carbon and its relationship with diesel particulate matter. Presented at the *National Workshop on Air Toxics Monitoring, Chicago, IL, May 13-14* (STI-902530-2369).
- Hafner H.R., Brown S.G., Penfold B.M., and Funk T.H. (2003) Suitability analysis for monitoring diesel particulate matter in the Detroit area. Presented at the *National Workshop on Air Toxics Monitoring, Chicago, IL, May 13-14* (STI-902530-2372).
- 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).
- Brown S.G. and Hafner H.R. (2002) Analysis of volatile organic compounds and their impact on ozone formation in the Houston area. Presented at the *Symposium on Air Quality Measurements Methods and Technology, San Francisco, CA, November 14* (STI-900670-2233).
- Brown S.G., Main H.H., and Ryan P.A. (2002) Mercury deposition into the Casco Bay Estuary, Maine. Presented at the *National Atmospheric Deposition Program (NADP) Scientific Symposium, Seattle, WA, September 11* (STI-2248).
- Main H.H. and Brown S.G. (2002) Acquisition, review and analysis of auto-GC data in the Houston area. Presented to Texas Natural Conservation Commission, Austin, TX, August 28 (STI-900670-2260).
- 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 Texas Natural Resource Conservation Commission, Austin, TX, April 4.
- Collett J.L. Jr., Lee T., Sherman D.E., Reilly J.E., Brown S.G., and Kreidenweis S.M. (2001) The composition of aerosol sampled at Big Bend National Park during the 1999 Big Bend Regional Aerosol and Visibility Observational study (BRAVO). Presented at the *Air and Waste Management Association Conference, Bend, OR, October 2-5*.
- Herckes P., Brown S., Lee T., Hannigan M.P., Kreidenweis S.M., and Collett J.L. Jr. (2001) Molecular composition of organic aerosol sampled at Big Bend National Park, Texas during the 1999 Big Bend Regional Aerosol and Visibility Observational (BRAVO) study. Presented at the *Air and Waste Management Association Conference, Bend, OR, October 2-5*.
- Herckes P., Brown S., Lee T., Hannigan M.P., Kreidenweis S.M., and Collett J.L. Jr. (2001) Molecular composition of organic aerosol sampled at Big Bend National Park, Texas during the 1999 Big Bend Regional Aerosol and Visibility Observational (BRAVO) study. Presented at the *20th Annual American Association for Aerosol Research Conference, Portland, OR, October 15-19*.
- Brown S.G., Sherman D.E., Hand J.L., Lee T., Kreidenweis S.M., and Collett J.L. Jr. (2000) Aethalometer measurements of sub- and super-micron black carbon during the BRAVO study. Presented at the *19th Annual American Association for Aerosol Research Conference, St. Louis, MO, November 6-11*.

## Formal Reports

- McCarthy M.C., Brown S.G., and Pasch A.N. (2011) Receptor modeling of pollutant concentrations in the Athabasca Oil Sands Region snow pack. Final report prepared for the Clean Energy Branch, Alberta Environment, Edmonton, Alberta, Canada by Sonoma Technology, Inc., Petaluma, CA, 911012-4121-FR, July 26.
- Craig K.J., Bai S., Eisinger D.S., and Brown S.G. (2011) Guidance for using AERMOD to complete particulate matter hot-spot analyses. Report prepared for the California Department of Transportation, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909106-3966, June 28.
- McCarthy M.C., Charrier J.G., and Brown S.G. (2011) Receptor modeling of VOCs, metals, and PAHs in the Athabasca Oil Sands Region of Alberta. Final Report prepared for Alberta Environment, Oil Sands and Clean Energy Policy Branch, Environment Assurance Division, Edmonton, Alberta by Sonoma Technology, Inc., Petaluma, CA, STI-910067-4103-FR, March.
- Brown S.G., Charrier J.G., DeWinter J.L., and Minor H.A. (2011) Emissions trends and model predictions of air pollutants in the Athabasca oil sands region of Alberta. Final report prepared for Sunny Cho, Oil Sands and Clean Energy Policy Branch, Environment Assurance Division, Alberta Environment, Edmonton, Alberta, Canada, by Sonoma Technology, Inc., Petaluma, California, STI-910067-4114-FR, March 31.
- McCarthy M.C., Brown S.G., and Friesen K. (2011) Source apportionment of VOCs and PAHs in Edmonton, Alberta. Final report prepared for Alberta Environment, Edmonton, Alberta, by Sonoma Technology, Inc, Petaluma, CA, STI-910064-4087, February.
- Roberts P.T., Reid S.B., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., and Brown S.G. (2010) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Final report prepared for the Arizona Department of Transportation, Phoenix, AZ by Sonoma Technology, Inc., Petaluma, CA, STI-908017-3971-FR, October.
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