

## Journal Articles

- Eisinger D., Craig K., Landsberg K., Mukherjee A., DeWinter J., McCarthy M., and Brown S. (2021) Near-road air quality insights from a U.S. DOT five-year transportation pooled fund study. *TR News*, (332), 20-27, March-April. Available at <http://www.trb.org/Publications/Blurbs/182193.aspx>.
- Ryder O.S., DeWinter J.L., Brown S.G., Hoffman K., Frey B., and Mirzakhali A. (2020) Assessment of particulate toxic metals at an Environmental Justice community. *Atmospheric Environment: X*, 6, 100070 (STI-7173), April. Available at <https://doi.org/10.1016/j.aeaoa.2020.100070>.
- DeWinter J.L., Brown S.G., Seagram A.F., Landsberg K., and Eisinger D.S. (2018) A national-scale review of air pollutant concentrations measured in the U.S. near-road monitoring network during 2014 and 2015. *Atmos. Environ.*, 183, 94-105, doi: 10.1016/j.atmosenv.2018.04.003 (STI-6777), June.
- Brown S.G., McCarthy M.C., DeWinter J.L., Vaughn D.L., and Roberts P.T. (2014) Changes in air quality at near-roadway schools after a major freeway expansion in Las Vegas, Nevada. *J. Air Waste Manage.*, 64(9), 1002-1012, doi: 10.1080/10962247.2014.907217 (STI-3889).
- Pasch A.N., Zahn P.H., DeWinter J.L., Haderman M.D., Szykman J.J., White J.E., Dickerson P., Dye T.S., van Donkelaar A., and Martin R.V. (2014) Saharan dust and wildfire smoke: an evaluation of enhancing AirNow with NASA satellite data. *Earthzine* (STI-5794), May 13. Available at <http://www.earthzine.org/2014/05/13/saharan-dust-and-wildfire-smoke-an-evaluation-of-enhancing-airnow-with-nasa-satellite-data/>.
- Raffuse S.M., McCarthy M.C., Craig K.J., DeWinter J.L., Jumbam L.K., Fruin S.A., Gauderman W.J., and Lurmann F.W. (2013) High-resolution MODIS aerosol retrieval during wildfire events in California for use in exposure assessment. *Journal of Geophysical Research*, 118(19), 11242-11255, doi: 10.1002/jgrd.50862 (STI-5433), October. Available at <http://onlinelibrary.wiley.com/doi/10.1002/jgrd.50862/abstract>.
- DeWinter J.L. and Keith K. (2007) NASA DEVELOP students use EOS data to study air quality on the U.S.-Canadian border. *The Earth Observer*, 19(5), 25-26.

## Meeting Presentations, Webinars, and Conference Proceedings

- Mukherjee A., King D., Nathan Pavlovic, Cavallaro A., Lurmann F., and DeWinter J. (2023) Evaluation of three computationally-efficient, high-resolution bias-correction methods for real-time modeled PM<sub>2.5</sub> concentrations. Presented at *American Meteorological Society (AMS) Annual Meeting, January 11*, by Sonoma Technology, Petaluma, CA. STI-7843.
- Mukherjee A., Pavlovic N., Cavallaro A., Lurmann F., DeWinter J., and King D. (2022) Evaluation of a novel approach to estimate PM<sub>2.5</sub> concentrations at high spatial resolution during smoke episodes by fusing low-cost sensor and reference monitor observations with chemical transport model forecasts Poster presented at the *American Geophysical Union (AGU) Conference, Chicago, IL, December 12-16*, by Sonoma Technology, Petaluma, CA. STI-7772.
- DeWinter J., Pavlovic N., Mukherjee A., Churchman L., Cavallaro A., Brown S., and Lurmann F. (2022) Evaluation of high-spatial-resolution air pollutant concentration and AQI estimates across the U.S. by fusing low-cost and reference monitor observations with chemical transport model forecasts Presentation given at the *Air Sensors International Conference, May 13, 2022, Pasadena, CA*, by Sonoma Technology, Petaluma, CA. STI-7627.

- Mukherjee A., Pavlovic N.R., and DeWinter J. (2022) Evaluation of methods for using low-cost sensors to improve hourly air quality forecasts for the United States Poster presented at the *Air Sensors International Conference, May 11-13, 2022, in Pasadena, CA* by Sonoma Technology, Petaluma, CA. STI-7629.
- Pavlovic N.R., Dickerson P.G., White J.E., Appoh E., Terry S., Hagler G., Kaufman A., Chan A., DeWinter J.L., Stanton L., and Brown S.G. (2018) U.S. EPA's AirNow international air sensor applications and initiatives in Accra, Ghana. Presented at the American Geophysical Union, Fall Meeting by Sonoma Technology, Inc., Petaluma, CA.
- DeWinter J., and Brown S. (2021) Data Analysis and Reporting Tool (DART); DART for PAMS data validation. Webinar presented for The Lake Michigan Air Directors Consortium (LADCO), presented on May 18-19, May 25-26, June 1-2, and June 8-9, by Sonoma Technology, Inc., Petaluma, CA. STI-921030-7532.
- DeWinter J. and Aguirre F. (2020) High-density deployment of PM<sub>2.5</sub> sensors in the Maywood environmental justice community. Presentation given at the *Air Sensors International Conference, June 18*, by Sonoma Technology, Inc., Petaluma, CA; the Coalition for Clean Air, Sacramento, CA; and Comite Pro Uno, Maywood, CA. STI-7394.
- Brown S., Eisinger D., Landsberg K., Ryder O., Mukherjee A., DeWinter J., and McCarthy M. (2020) National assessment of measured near-road (NR) air quality work: sponsored by the Near-Road Air Quality Transportation Pooled Fund (TPF). Presentation given at the *U.S. Transportation Research Board 99th Annual Meeting, Washington, D.C., January 16*, by Sonoma Technology, Petaluma, CA. STI-7230.
- Ryder O.S., DeWinter J.L., Brown S.G., Hoffman K., Frey B., and Mirzakhali A. (2019) Assessment of particulate toxic metals at an Environmental Justice community. Poster presented at the *2019 American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA, and the Delaware Department of Natural Resources and Environmental Control, Dover, DE. A21G-2644, STI-7151.
- Brown S.G., Ryder O.S., DeWinter J.L., Hoffman K., and Frey E. (2019) Assessment of airborne toxic metals at an Environmental Justice community in Wilmington, Delaware. Presented at the *American Association for Aerosol Research Conference, Portland, OR, October 15*, by Sonoma Technology, Inc., Petaluma, CA, and the Delaware Department of Natural Resources and Environmental Control, Dover, DE. STI-7188.
- Brown S., Craig K., Eisinger D., Landsberg K., Mukherjee A., Baringer L., Chang S.Y., DeWinter J., McCarthy M., and Huang S. (2019) National assessment of near-road (NR) air quality: requirements, trends, and analysis insights. Presented for the U.S. Transportation Research Board webinar series, September 30, by Sonoma Technology, Inc., and the Washington State Department of Transportation.
- Brown S., Craig K., Eisinger D., Landsberg K., Mukherjee A., Baringer L., Chang S.Y., DeWinter J., McCarthy M., and Huang S. (2019) National assessment of near-road (NR) air quality: requirements, trends, and analysis insights. Presented to the AASHTO Committee on Environment and Sustainability, 2019 Annual Meeting, Minneapolis, MN, August 7, by Sonoma Technology, Inc., Petaluma, CA, and the Washington State Department of Transportation, Olympia, WA. STI-7154.
- Pavlovic N., DeWinter J., and Mukherjee A. (2019) Global framework for air quality monitoring. Webinar presented to the United Nations Environment Programme (UNEP), July 24, by Sonoma Technology, Inc. STI-919004-7146.
- DeWinter J.L., Haderman M.D., Hafner H.R., and Brown S.G. (2019) Mining big data from low-cost air sensors in California. Presentation given at the *Air & Waste Management Association's Air Quality Measurements Conference, Durham, NC, April 2*, by Sonoma Technology Inc., Petaluma, CA. STI-7090.

- Mukherjee A., DeWinter J., and Huang S. (2019) Ozone impacts on vegetation. Webinar presented to Electric Power Research Institute by Sonoma Technology, Inc., Petaluma, CA, STI-918085-7103, April.
- Seagram A., Huang S., Brown S., Landsberg K., DeWinter J., and Eisinger D. (2019) National assessment of near-road air quality: trends and estimation of near-road PM<sub>2.5</sub> increment. Presented at the Transportation Research Board 2019 Annual Meeting, Analysis Subcommittee, Transportation and Air Quality Committee, Washington, DC, January 14, by Sonoma Technology, Inc., Petaluma, CA. STI-7034.
- DeWinter J., Hafner H., Papapostolou V., and Polidori A. (2018) Community-based air quality monitoring with low-cost sensors: developing a toolkit, best practices, and lessons learned. Poster presented at the *2018 AGU Fall Meeting, Washington D.C., December 10-14*, by Sonoma Technology, Inc., Petaluma, CA, and the South Coast Air Quality Management District, Diamond Bar, CA. STI-6966.
- Stanton L., Pavlovic N., DeWinter J., and Hafner H. (2018) Approaches to sensor calibration. Presentation given at the *National Ambient Air Monitoring Conference, August 15*, by Sonoma Technology, Petaluma, CA. STI-6917.
- Stanton L.G., Pavlovic N.R., DeWinter J.L., and Hafner H.R. (2018) Approaches to air sensor calibration. Poster presented at the *2018 UC Davis Air Sensors International Conference, Oakland, CA, September 12-14*, by Sonoma Technology, Petaluma, CA. STI-6908.
- Hafner H., Papapostolou V., Hoag K., and DeWinter J. (2018) Community sensor training: best practices and lessons learned. Presented at the *2018 UC Davis Air Sensors International Conference, Oakland, CA, September 14*, by Sonoma Technology, Inc., Petaluma, CA. STI-6909. Available at [https://asic.aqrc.ucdavis.edu/sites/g/files/dgvnsk3466/files/inline-files/Hilary%20Hafner%20-%20community%20session%203\\_Hafner%20%281%29.pdf](https://asic.aqrc.ucdavis.edu/sites/g/files/dgvnsk3466/files/inline-files/Hilary%20Hafner%20-%20community%20session%203_Hafner%20%281%29.pdf).
- White J.E., Appoh E., Terry S., Hagler G., Kaufman A., DeWinter J.L., Stanton L.G., and Chan A.C. (2018) U.S. EPA's AirNow International air sensor applications and initiatives in Accra, Ghana. Poster presented at the *UC Davis Air Sensors International Conference, Oakland, CA, September*, by Sonoma Technology, Inc., Petaluma, CA. STI-6913.
- Seagram A., Huang S., Brown S., DeWinter J., Landsberg K., and Eisinger D. (2018) National-scale near-road monitoring findings in 2016. Presented at the *Transportation Research Board 2018 Annual Meeting, Analysis Subcommittee, Transportation and Air Quality Committee, January 9*, by Sonoma Technology, Inc., Petaluma, CA, and the Washington State Department of Transportation, Olympia, WA. STI-6842.
- Seagram A., Brown S., DeWinter J., and Eisinger D. (2017) TPF TO3 Phase III 2016 National Data Assessment: preliminary results. Webinar presented to Transportation Pooled Fund participants, Petaluma, CA, September 15. STI-914203-6791.
- Brown S., DeWinter J., Graham A., Seagram A., Landsberg K., and Eisinger D. (2017) National-scale near-road air quality data assessment: 2014-2015 findings from the near-road air monitoring program. Presented at the *Transportation Research Board 2017 Annual Meeting, Transportation and Air Quality Committee, January 10*, by Sonoma Technology, Inc., and the Washington State Department of Transportation. STI-6635.
- DeWinter J.L., Brown S.G., Graham A.R., Landsberg K., and Eisinger D.S. (2016) National-scale air quality data assessment: initial findings from the near-road NO<sub>2</sub> monitoring program. Poster presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8-11*. STI-6503.

- DeWinter J., Brown S., and Hafner H. (2016) DART for CSN (Data Analysis and Reporting Tool for Chemical Speciation Network Data). Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8-11*. STI-6563.
- DeWinter J., Brown S., Hafner H., Landis B., and Cavender K. (2016) DART training for PAMS and CSN. Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8*, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC. STI-6561.
- Brown S., Hafner H., and DeWinter J. (2016) DART for PAMS. Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8*, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC. STI-6552.
- DeWinter J., Brown S., and Landis B. (2016) Chemical speciation network data review process in DART. Webinar presented to CSN agencies, March 31, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC. STI-915208-6485.
- Hafner H.R., Brown S.G., Roberts P.T., DeWinter J.L., and Vaughn D.L. (2016) Ultrafine particle measurements at schools next to freeways in Las Vegas and Salt Lake City. Presented at the *AWMA Measurements Conference, Research Triangle Park, NC, March 16*. STI-6357.
- Dye T., Brown S., and DeWinter J. (2016) Petaluma community air monitoring experiment. Presented to the U.S. Environmental Protection Agency, February 9, by Sonoma Technology, Inc., Petaluma, CA. STI-815007-6451.
- DeWinter J., Brown S., Graham A., Landsberg K., and Eisinger D. (2016) National-scale near-road air quality data assessment: findings from the near-road NO<sub>2</sub> monitoring program. Presentation given at the *2016 Transportation Research Board Annual Meeting, Washington, DC, January 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-914203-6418.
- DeWinter J.L., Brown S.G., Graham A.R., Landsberg K., and Eisinger D.S. (2015) National-scale air quality data assessment: initial findings from the near-road NO<sub>2</sub> monitoring program. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 14-18*. STI-6332.
- Roberts P.T., Brown S.G., Vaughn D.L., and DeWinter J.L. (2015) Mitigating and tracking black carbon exposure at schools near the Mountain View Corridor in Greater Salt Lake City, Utah. Presented at the *AGU Fall Meeting, San Francisco, CA, December 14-18*. STI-6336.
- DeWinter J. and Hafner H. (2015) EPA's Data Analysis and Reporting Tool (DART). Presented at the *National Air Toxics Monitoring and Data Analysis Workshop, Research Triangle Park, NC, October 26-28*, by Sonoma Technology, Inc., Petaluma, CA. STI-6389.
- Erdakos G.B., Craig K.J., DeWinter J.L., and Reid S.B. (2015) MetDat meteorological database system: data acquisition, processing, and accessibility through the AirNow Portal. Poster presented at the *14th Annual CMAS Conference, Chapel Hill, NC, October 5-7*. STI-6353.
- Roberts P.T., Vaughn D.L., DeWinter J.L., and Brown S.G. (2015) Black carbon and PM<sub>2.5</sub> filtration in classroom ventilation systems near Salt Lake City, Utah, and in Las Vegas, Nevada. Poster presented at the *Healthy Buildings 2015 America Conference, Boulder, CO, July 19-22*. STI-6180.

- Bai S., Brown S., DeWinter J., Du Y., Eisinger D., Erdakos G., Graham A., and Reid S. (2015) Transportation Pooled Fund (TPF): overall progress webinar. Presented to Transportation Pooled Fund participants, May 14, by Sonoma Technology, Inc., Petaluma, CA. STI-914201-6273.
- DeWinter J.L., Raffuse S.M., Brown S.G., and Craig K.J. (2015) Reducing the potential for black carbon to impact the Arctic. Presented at the *Transportation for Sustainability: Sustainable Transportation for Climate Change*, Washington, DC, May 7. STI-6260.
- DeWinter J.L. and Brown S.G. (2015) EPA's Data Analysis and Reporting Tool (DART): current and upcoming features. Presented on behalf of the U.S. Environmental Protection Agency Office of Air Quality and Planning and Standards, May, by Sonoma Technology, Inc., Petaluma, CA. STI-915108-6275.
- DeWinter J.L., Raffuse S.M., Craig K.J., Brown S.G., and Roberts P.T. (2015) Global modeling and analysis system for 30-year assessment of long-range transport. Poster presented at the *San Joaquin Valley Air Pollution Control District's Transboundary Ozone Pollution Conference in Yosemite, CA, March 31-April 2*. STI-6225.
- Roberts P.T., DeWinter J.L., Vaughn D., Brown S.G., and Ludwig J. (2015) Assessing air pollution outdoors and indoors at schools in Salt Lake City. Presented at the U.S. Environmental Protection Agency Headquarters, Research Triangle Park, NC, March 10, by Steve Brown, Sonoma Technology, Inc., Petaluma, CA. STI-6200.
- McCarthy M., Brown S., Bai S., DeWinter J., O'Brien T., Vaughn D., Peltier R., Soltis J., Field R., Murphy S., and Roberts P. (2014) Characterizing air toxics from oil field operations in Los Angeles, CA. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 16*, by Sonoma Technology, Inc., Petaluma, CA. STI-6039.
- Brown S. and DeWinter J. (2014) NEWDat tool for PAMS data validation and analysis. Presented at the *National Ambient Air Monitoring Conference, Atlanta, GA, August 11-14*, by Sonoma Technology, Inc., Petaluma, CA. STI-910514-6034.
- McCarthy M., Brown S., Bai S., DeWinter J., O'Brien T., Vaughn D., and Roberts P. (2014) Baldwin Hills air quality study. Presented at the *National Ambient Air Monitoring Conference, Atlanta, GA, August 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-5954.
- DeWinter J. (2014) Getting started with VOCDat. Presented at the *National Ambient Air Monitoring Conference, Atlanta, GA, August 11*, by Sonoma Technology, Inc., Petaluma, CA. STI-910514-6044.
- Raffuse S.M., DeWinter J.L., McCarthy M.C., Craig K.J., and Lurmann F. (2014) A high-spatial-resolution MODIS aerosol optical depth product for evaluating aerosol during large wildfire events. Presented at the *2014 Global Emissions Initiative Conference, Boulder, CO, June 10-11*. STI-5990.
- MacDonald C.P., Dye T.S., Roberts P.T., McCarthy M.C., DeWinter J.L., Vaughn D.L., Henshaw G., Nester S., Minor H.A., and Rutter A.P. (2014) Addressing ozone regulatory issues using small sensor technology. Poster presented at the *U.S. EPA Air Sensors 2014 Workshop, Research Triangle Park, NC, June 9-10*. STI-5989.
- Drury S.A., Russell A.R., DeWinter J.L., Ekstrand A.L., and Lorentz K.A. (2014) AFTEERS: Automated Fuels Treatment Effectiveness Evaluation Using Remote Sensing Information. Poster presented at the *Large Wildland Fires Conference, Missoula, Montana, May 20*. STI-5900.
- Drury S.A., DeWinter J.L., and Russell A.R. (2014) AFTEERS: Automated Fuels Treatment Effectiveness Evaluation using Remote Sensing. Webinar presented to the National Aeronautics and Space Administration's ROSES-2011 A.35 Wildfire Phase I Review Panel, January 28, by Sonoma Technology, Petaluma, CA. STI-912047-5893.

- Dye T.S., Pasch A.N., Zahn P.H., DeWinter J.L., Haderman M.D., Szykman J.J., White J.E., Dickerson P., van Donkelaar A., and Martin R.V. (2013) Improving AirNow air quality products with NASA near-real-time remotes sensing data. Invited presentation given at the *AGU Fall Meeting, San Francisco, California, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA; NASA Langley Research Center, Hampton, VA; U.S. Environmental Protection Agency, Research Triangle Park, NC; Dalhousie University, Halifax, Nova Scotia, Canada. STI-5726.
- Russell A.R., Drury S.A., DeWinter J.L., Ekstrand A.L., and Lorentz K.A. (2013) Automated fuels treatment effectiveness evaluation using remote-sensing information. Poster presented at the *American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA. STI-5732.
- Dawes S., Burke G.B., Pasch A., Huang S., Dye T., Zahn P., DeWinter J., Haderman M., Szykman J., White J., Dickerson P., van Donkelaar A., and Martin R. (2013) Assessing the value of enhancing AirNow with the NASA satellite data. Presented at the *AGU Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA; the Center for Technology in Government at the University of Albany, Albany, NY; NASA Langley Research Center, Hampton, VA; the U.S. Environmental Protection Agency, Research Triangle Park, NC; and Dalhousie University, Halifax, NS, Canada. STI-5734.
- Haderman M., Larkin N., Cavallaro A., Beach C.M., Stille J., DeWinter J., Craig K., and Raffuse S. (2013) BlueSky Cloud: rapid infrastructure using Amazon's cloud for wildfire emergency response. Presented at the *AGU Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA. STI-5735.
- Pasch A., Zahn P., DeWinter J., Haderman M., Szykman J., White J., Dickerson P., Dye T., van Donkelaar A., and Martin R. (2013) AirNow Satellite Data Processor: Improving EPA's AirNow air quality index maps using NASA/NOAA satellite data and air quality model predictions. Poster presented at the *12th Annual CMAS Conference, UNC-Chapel Hill, NC, October 28-30*, by Sonoma Technology, Inc., Petaluma, CA. STI-5708.
- Haderman M.D., Dye T.S., White J.E., Dickerson P., Pasch A.N., DeWinter J.L., Miller D.S., and Chan A.C. (2012) AirNow Information Management System (IMS). Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 3-7*, by Sonoma Technology, Inc., Petaluma, CA (STI-5441).
- Pasch A.N., Zahn P.H., DeWinter J.L., Haderman M.D., Szykman J.J., White J.E., Dickerson P.G., and Dye T.S. (2012) 2010-2011 Performance of the AirNow Satellite Data Processor. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 3-7*, by Sonoma Technology, Inc., Petaluma, CA (STI-5436).
- DeWinter J.L., Raffuse S.M., McCarthy M.C., Craig K.J., Jumbam L.K., and Lurmann F.W. (2012) Developing a high spatial resolution aerosol optical depth product using MODIS data for evaluating aerosol during large wildfire events. Presented at the *Air and Waste Management Association Visibility and Air Pollution Conference, Whitefish, MT, September 26*, by Sonoma Technology, Inc., Petaluma, CA (STI-5384).
- Penfold B.M. and DeWinter J.L. (2012) Using GIS to assess air quality monitoring networks. Poster presented at the *AAG Annual Meeting, New York, February 24-28*, by Sonoma Technology, Petaluma, CA (STI-4240).
- Pryden D., Raffuse S.M., Larkin N.K., Dedecko T.M., DeWinter J.L., and Craig K.J. (2012) A system for storing and analyzing a massive climatological database of modeled air mass trajectories. Presented at the *American Meteorological Society's 92nd Annual Meeting, Second Symposium on Advances in Modeling and Analysis Using Python, New Orleans, LA, January 23*, by Sonoma Technology, Petaluma, CA, and USDA Forest Service, Pacific Northwest Research Station, Seattle, WA (STI-4186).
- Raffuse S.M., McCarthy M.C., Craig K.J., DeWinter J.L., Jumbam L.K., and Lurmann F.W. (2011) High resolution MODIS aerosol retrieval during wildfire events in California for use in exposure assessment. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 9* (STI-4183).

- DeWinter J.L., Larkin N.K., Strand T.T., Raffuse S.M., Brown S.G., Craig K.J., and Roberts P.T. (2011) Synoptic scale patterns and variability in long-range transport from the CONUS to the Arctic Circle: informing controlled burn strategy and regulation. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 7* (STI-4184).
- Pasch A.N., Zahn P.H., DeWinter J.L., Haderman M.D., White J.E., Dickerson P.G., Dye T.S., and Martin R.V. (2011) Improve EPA's AirNow air quality index maps with NASA/NOAA satellite data. Presented at the *AGU Fall Meeting, San Francisco, CA, December 5* (STI-4182).
- 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).
- 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.
- McCarthy M.C., Penfold B.M., and DeWinter J. (2011) Fort Air Partnership network evaluation conceptual model webinar. Webinar presented to the Fort Air Partnership Technical Working Group, Fort Saskatchewan, Alberta, Canada, September 21 (STI-911052-4214).
- 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).
- McCarthy M.C., Raffuse S.M., DeWinter J.L., Craig K.J., Lurmann F.W., and Fruin S.A. (2010) Development and evaluation of a high-resolution AOD product for the Southern California region during the October 2007 wildfires. Poster presented at the *AGU Fall Meeting, San Francisco, CA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA, and University of Southern California, Los Angeles, CA (STI-3997).
- DeWinter J.L., Larkin N.K., Strand T.T., Raffuse S.M., Brown S.G., Craig K.J., 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).
- 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 the 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).
- 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).
- 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 25-28*, by Sonoma Technology, Inc., Petaluma, CA, and the 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, San Antonio, TX, September 29* (STI-3959).
- Brown S.G., McCarthy M.C., DeWinter J.L., Roberts P.T., Lee T., and Collett J.L. (2010) Characterization of aerosol at several near-roadway schools in Las Vegas, NV. Presented at the *2010 International Aerosol Conference, Helsinki, Finland, September 3*, 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).
- 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).
- MacDonald C.P., Craig K.J., DeWinter J.L., Pasch A.N., Tollstrup B., and Kennard A. (2010) Benefits of forecast-based residential wood burning bans on air pollution. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3807).
- 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., 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).
- DeWinter J.L., Tisdale B.E., Ross A.L., Keith K.E., Hodges Petty E., Yates A.M., Tisdale M.D., Smith D., Lister J.L., Rainey D.C., Sarper M., Jackson D., Neil D.O., Kittaka C., Engel-Cox J.A., Hoff R.M., and Sykman J. (2007) Utilization of NASA Moderate Resolution Imaging Spectroradiometer (MODIS) derived Aerosol Optical



Depth (AOD) for trends analysis over the United States-Canada border region. Prepared for the American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.

Smith A.D., DeWinter J.L., Reid S., Congiu S., and Banker S. (2007) Utilizing remote sensing to analyze aerosols over Glacier National Park, Montana. Prepared for George Wright Society Biennial Conference Oral Session, St. Paul, MN.

DeWinter J.L., Hollembeak E.M., Doughty D.C., III, Linton K.M., Bell D.D., Milby M.C., and Richards A.L. (2007) Calculating shortwave direct beam with near real-time NASA satellite products to determine optimal placement of solar energy resources. Poster prepared for the *National Conference on Undergraduate Research, Dominican University of California, San Rafael, CA*.

Hollembeak E.M., DeWinter J.L., Linton K.M., Doughty D.C., III, Bell D.D., and Milby M.C. (2006) Energy management: renewable energy technologies. Poster prepared for the *Sigma Xi Student Research Conference, Christopher Newport University, Newport News, VA*.

## Formal Reports

Wang N., McClure C., and DeWinter J. (2023) Quality assurance project plan for the photochemical assessment monitoring stations (PAMS) required site network for speciated volatile organic compounds, carbonyls, and meteorological parameters including mixing layer height - revision 1. Prepared for the U.S. Environmental Protection Agency Office of Air Quality Planning Standards Air Quality Assessment Division, Research Triangle Park, NC by Sonoma Technology, Petaluma, CA, STI-7906, May.

Wang N., McClure C., and DeWinter J. (2023) Technical assistance document for sampling and analysis of ozone precursors for the photochemical assessment monitoring stations program - revision 3. Prepared for the U.S. Environmental Protection Agency Office of Air Quality Planning Standards Air Quality Assessment Division, Research Triangle Park, NC by Sonoma Technology, Petaluma, CA, STI-7907, May.

Ryder O.S., Brown S., and DeWinter J. (2021) Air quality analysis of toxic metals and particulate matter concentrations in 2019-2020 in the city of Maywood, CA - an AB-617 environmental justice community. prepared for Comite Pro Uno and Coalition for Clean Air by Sonoma Technology Petaluma, CA, STI-918090-7518, June.

DeWinter J.L., Dunn M.R., McCarthy M.C., and Brown S.G. (2019) Evaluation of near-road air pollution at Environmental Justice (EJ) and non-EJ communities in the Greater Detroit area. Final report prepared for the Michigan Department of Environment, Great Lakes, and Energy by Sonoma Technology, Inc., Petaluma, CA, STI-916002-7171, October 11.

Ryder O.S., DeWinter J.L., Brown S.G., Hoffman K., and Frey B. (2019) Assessment of particulate toxic metals at an Environmental Justice community in Wilmington, Delaware. Final report prepared for the Delaware Department of Natural Resources and Environmental Control by Sonoma Technology, Inc., 918022-7112, May 31.

DeWinter J., Brown S., and Eisinger D. (2019) Factors affecting estimates of background concentrations. Final report prepared for the Washington State Department of Transportation, Olympia, WA, by Sonoma Technology, Inc., Petaluma, CA, STI-914203-7078, May 2.

Brown S., Craig K., Graham A., DeWinter J., and Pavlovic N. (2018) Overview of exceptional event analysis techniques and data resources: methods and case study examples for wildfire and stratospheric ozone

intrusion events. Technical report prepared for the Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916029-6667-FR, February.

McCarthy M., Brown S., and DeWinter J. (2018) Air toxics validation with DART. Technical memorandum prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-915308-6844-TM, January 4.

DeWinter J.L., Brown S.G., Seagram A.F., Graham A.R., and Eisinger D.S. (2016) National near-road data assessment: Report No. 2 with 2015 data. Final report prepared for the Washington State Department of Transportation, lead agency for the Near-Road Air Quality Research Transportation Pooled Fund, TPF-5(284), by Sonoma Technology, Inc., Petaluma, CA, STI-914203-6482, October 7.

DeWinter J. (2016) Summary of Kids Making Sense program at Dana Middle School. Technical memorandum prepared for the Coalition for Clean Air by Sonoma Technology, Inc., STI-915040-6543, July 1.

DeWinter J.L. and Chan A.C. (2015) Kids Making Sense Workshop in Los Angeles, CA. Trip report prepared for the U.S. Environmental Protection Agency Office of Environmental Education, Washington, DC, STI-915102-6415, December.

DeWinter J., Drury S., McCarthy M., Brown S., Hafner H., and Roberts P. (2015) National Ambient Air Quality Standards (NAAQS) for ozone: recommendations for future research to inform the secondary standard. Draft report prepared for the Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-915031-6345, September 1.

DeWinter J.L., Brown S.G., Graham A.R., and Eisinger D.S. (2015) National near-road data assessment: report no. 1. Interim final report prepared for the Washington State Department of Transportation, Seattle, WA, by Sonoma Technology, Inc., Petaluma, CA, STI-914203-6215, May.

McCarthy M.C., Brown S.G., Bai S., DeWinter J.L., O'Brien T.E., Vaughn D.L., and Roberts P.T. (2015) Baldwin Hills air quality study. Final report prepared for Los Angeles County by Sonoma Technology, Inc., Petaluma, CA, STI-912024-5924-FR, February 20.

Huang S., Craig K., Ekstrand A., Brown S., and DeWinter J. (2015) Regional peak ozone and ozone transport analysis for the Mojave Desert air basin and surrounding areas. Technical memorandum prepared for the Mojave Desert Air Quality Management District, Victorville, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-914078-6192-TM, February 16.

Miller D., DeWinter J., and Reid S. (2014) Documentation of data portal and case study to support analysis of fire impacts on ground-level ozone concentrations. Technical memorandum prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Sonoma Technology, Inc., Petaluma, CA, STI-910507-6062, September 5.

Larkin N.K., Strand T.T., DeWinter J.L., Brown S.G., Raffuse S.M., Craig K.J., Hafner H.R., Callahan J., and Solomon R.C. (2014) An atlas and daily forecasts for assessing the potential for emissions transport from Eurasia to the Arctic. Final report, STI-910020-6074-FR, September.

Roberts P.T., Ludwig J.F., DeWinter J.L., and Vaughn D.L. (2014) Background air quality and mitigation strategies near the Mountain View Corridor. Final report prepared for the Mountain View Corridor Air Working Group, Utah Department of Transportation, Salt Lake City, UT, by Sonoma Technology, Petaluma, CA, and Environmental Health & Engineering, Needham, MA, STI-910051-5902-FR, August.

- DeWinter J.L. and Brown S.G. (2014) Quality Assurance Project Plan (QAPP): Developing a web-based application for validation and analysis of Photochemical Assessment Monitoring Stations (PAMS) volatile organic carbon (VOC) and other air quality data. Quality Assurance Project Plan prepared for Kevin Cavender, Office of Air Quality Planning and Standards (OAQPS), U.S. Environmental Protection Agency (EPA), Research Triangle Park, NC, 910514-5999-QAP, July.
- MacDonald C.P., Roberts P.T., McCarthy M.C., DeWinter J.L., Dye T.S., Vaughn D.L., Henshaw G., Nester S., Minor H.A., Rutter A.P., Smith K., and Winegar E. (2014) Ozone concentrations in and around the City of Arvin, California. Final report prepared for the San Joaquin Valley Unified Air Pollution Control District, Fresno, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913040-5865-FR2, May. Available at [http://www.valleyair.org/air\\_quality\\_plans/docs/2013attainment/ozonesaturationstudy.pdf](http://www.valleyair.org/air_quality_plans/docs/2013attainment/ozonesaturationstudy.pdf).
- DeWinter J. (2013) Playground Canada and western Canada smoke forecasting enhancements. Technical memorandum prepared for the British Columbia Ministry of Environment by Sonoma Technology, Inc., Petaluma, CA, STI-913005-5619-TM, March 29.
- DeWinter J.L., Pasch A.N., Haderman M.D., Zahn P.H., and Dye T.S. (2012) AIRNow Satellite Data Processor System: functional and technical specifications. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., STI-910306-5505, October 4.
- Larkin N.K., Strand T.M., DeWinter J.L., Brown S.G., Raffuse S.M., Craig K.J., Hafner H.R., Callahan J., and Solomon R.C. (2012) An atlas and daily forecasts for assessing the potential for emissions transport to the arctic. Final report prepared for the Joint Fire Science Program, Boise, Idaho, STI-910020-5489-FR, September.
- Larkin N.K., DeWinter J.L., Strand T.M., Brown S.G., Raffuse S.M., Callahan J., Craig K.J., Solomon R.C., and Hafner H.R. (2012) Identification of necessary conditions for arctic transport of smoke from United States fires. Final report prepared for the Joint Fire Science Program, Boise, Idaho, STI-910020-5494-FR, September.
- DeWinter J. (2012) Improving the Western Canada BlueSky Smoke Forecasting System with SmartFire2. Technical memorandum prepared for BC Ministry of Environment, British Columbia, Canada, by Sonoma Technology, Petaluma, CA, STI-912001-5340-TM, March 30.
- 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 the 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.
- DeWinter J. and Raffuse S. (2011) Pilot study on cross-walking fire information against land-use, fuel loading, and other management information in SMARTFIRE2. Technical memorandum prepared for the USDA Forest Service AIRFire Team by Sonoma Technology, Inc., Petaluma, CA, STI-909054-4089-TM, February.
- DeWinter J. and Raffuse S. (2010) SMARTFIRE2 data source collection plan. Technical memorandum prepared for the U.S. Forest Service AirFire Team by Sonoma Technology, Inc., Petaluma, CA, STI-910050-4003-TM, October 14.
- 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.

- Vaughn D.L., Dye T.S., Roberts P.T., Ray A.E., and DeWinter J.L. (2010) Characterization of low-cost NO<sub>2</sub> sensors. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910112-3958-DFR, September.
- Reid S.B., Pollard E.K., DeWinter J., and Penfold B.M. (2010) Wyoming statewide air monitoring network assessment Task F: pollutant residence time analysis. Technical memorandum prepared for the Wyoming Department of Environmental Quality, Cheyenne, WY, by Sonoma Technology, Inc., Petaluma, CA, STI-910019-3961, September 7.
- Miller D.S., Craig K.J., DeWinter J.L., MacDonald C.P., Reid S.B., and Hafner H.R. (2010) An air parcel transport corridor analysis for Sublette County, Wyoming. Technical memorandum prepared for the Wyoming Department of Environmental Quality by Sonoma Technology, Inc., Petaluma, CA, STI-910028-3954, September 2.
- Roberts P.T., McCarthy M., and DeWinter J. (2010) Mitigation strategies for reducing motor-vehicle pollutants near existing roadways: a review of the literature. Final report prepared for Health Canada, Healthy Environments and Consumer Safety Branch, Air Health Assessment Section, Ottawa, ON, by Sonoma Technology, Inc., Petaluma, CA, STI-910006-3845-FR, June 18.
- Roberts P.T., Brown S.G., McCarthy M.C., DeWinter J.L., and Vaughn D.L. (2010) Mobile source air toxics (MSATs) at three schools next to U.S. 95 in Las Vegas, Nevada. Prepared for the Nevada Department of Transportation, Las Vegas, NV, by Sonoma Technology, Inc., Petaluma, CA, STI-906034-3509-FR2, May.
- Craig K.J., DeWinter J., and Raffuse S. (2010) Qualitative analysis of the Western Canada BlueSky Pilot System for August 2009. Technical memorandum prepared for Environment Canada, Edmonton, Alberta, Canada by Sonoma Technology, Inc., Petaluma, CA, STI-909057-3866-TM, April 30.
- U.S. Environmental Protection Agency (2010) Our nation's air: status and trends through 2008. Prepared by the Office of Air Quality Planning and Standards, Research Triangle Park, NC, EPA-454/R-09-002, February. Available on the Internet at <http://www.epa.gov/airtrends/2010/report/fullreport.pdf>.
- DeWinter J.L., McCarthy M.C., Brown S.G., Shiffrin J.P., and Hafner H.R. (2009) Atmospheric nitrogen deposition on Wampanoag tribal lands. Draft final report prepared for the Wampanoag Tribe of Gay Head (Aquinnah), Aquinnah, MA, prepared by Sonoma Technology, Inc., Petaluma, CA, STI-909015-3706-DFR, September.
- DeWinter J.L., Brown S.G., McCarthy M.C., Shiffrin J.P., and Hafner H.R. (2009) Fine particle pollution and atmospheric deposition on Wampanoag Tribal lands. Webinar prepared for the Wampanoag Tribe of Gay Head (Aquinnah), Aquinnah, MA, by Sonoma Technology, Inc., Petaluma, CA, STI-909015-3693, September.
- MacDonald C.P., Craig K.J., DeWinter J.L., Pasch A.N., Brown S.G., and Wheeler N.J.M. (2009) Evaluation of Sacramento Metropolitan Air Quality Management District's Check Before You Burn Program. Final report prepared for the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909014.06-3612-FR2, August.
- Lockheed Martin (2009) Deliverable No. 5.6.3, Evaluation of indoor/outdoor data for infiltration and filtration efficiency, version 1.0. Summary report, plots, and data files prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Jennifer L. DeWinter, Steven G. Brown, and Paul T. Roberts at Sonoma Technology, Inc., Petaluma, CA, and Lockheed Martin, Arlington, VA, STI-908077-3649, 13-NERL-RPT-0058, June.

McCarthy M.C., Huang S.M., DeWinter J.L., and Hafner H.R. (2009) Measuring progress in air toxics using ambient data. Final report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-908303.02-3450-FR, January.

U.S. Environmental Protection Agency (2008) National air quality status and trends through 2007. Prepared by the Office of Air Quality Planning and Standards, Air Quality Assessment Division, Research Triangle Park, NC, EPA-454/R-08-006, November. Available on the Internet at <http://www.epa.gov/airtrends/2008/report/TrendsReportfull.pdf>.

McCarthy M.C., DeWinter J., and Hafner H.R. (2008) Toxics indicator development – progress report. Technical memorandum prepared for Eastern Research Group, Lexington, MA, by Sonoma Technology, Petaluma, CA, STI-908401.03-3486, October.

## Software Documentation

DeWinter J. (2017) Data Analysis and Reporting Tool (DART) user guide, v3. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-915208-6276-UG, January.

DeWinter J., Brown S., and Hafner H. (2015) Data Analysis and Reporting Tool (DART) user guide. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910514-6276-UG, November.

DeWinter J.L. and Raffuse S.M. (2015) Playground Canada User's Guide, v2. Prepared by Sonoma Technology, Inc., Petaluma, CA, STI-915005-6242-UG, April 15.

DeWinter J., Haste T., Brown S., and Hafner H. (2014) VOCDat user guide. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910514-6043-UG, September.

DeWinter J. and Pasch A. (2013) AirNow IMS map template worksheet. Software guidance prepared for Focused Photonics (Hangzhou), Inc., Hangzhou, Zhejiang Province, China, by Sonoma Technology, Inc., Petaluma, CA, STI-913062-5818, November.

Alcorn S.H. and DeWinter J.L. (2010) BAAQMD DMS user documentation. User's guide prepared for the Bay Area Air Quality Management District by Sonoma Technology, Inc., Petaluma, CA, STI-909026-3863-UG, June.

## Courses Taught

DeWinter J.L., Brown S.G., O'Brien T.E., and Hafner H.R. (2010) Systat: statistical visualization software. Training presented to the Michigan Department of Environmental Quality, Lansing, MI, by Sonoma Technology, Petaluma, CA, STI-908015-3843, March 31-April 1.

Alcorn S. and DeWinter J. (2011) DMS training guide – administrative functions. Training guide prepared for Patrick Air Force Base, Florida by Sonoma Technology, Inc., Petaluma, CA, STI-910059-4073, January.

Penfold B.M. and DeWinter J.L. (2009) GIS training. Prepared for the Salt River Pima-Maricopa Indian Community, Scottsdale, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-908057-3679, August.