

## 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

- Pavlovic N.R., King D.H., Mukherjee A.D., Cavallaro A.M., Lurmann F.W., and DeWinter J.L. (2023) Use of Air Quality Sensor Data in Data Fusion Applications for Current and Forecast Air Quality Mapping. Presented online at the *EPA Air Sensor QA Workshop, July*, by Sonoma Technology, Petaluma, CA. STI-7944.
- 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 Mirzakhilili 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 PM2.5 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., Stillely 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., Dedeco 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).
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