

Journal Articles

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 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 (STI-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).

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.

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.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).

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).
- 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 28* by Sonoma Technology, Inc., Petaluma, CA, and U.S. Forest Service Pacific Northwest Research Station, Seattle, WA (STI-910020-4005).
- Reid S.B., Eisinger D.S., Roberts P.T., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2010) Field study of PM_{2.5} emissions from a road-widening project. Paper presented at the *19th International Emissions Inventory Conference, September 29*, San Antonio, TX (STI-3959).
- Brown S.G., McCarthy M.C., DeWinter J.L., Roberts P.T., Lee T., and Jeffrey L. Collett J. (2010) Characterization of aerosol at several near-roadway schools in Las Vegas, NV. Presented at the *2010 International Aerosol Conference, Helsinki, Finland, September 3, 2010* by Sonoma Technology, Inc., Petaluma, CA and Colorado State University, Fort Collins, CO (STI-3947).
- Roberts P.T., Brown S.G., DeWinter J.L., and McCarthy M.C. (2010) Changes in MSATs at near-roadway schools after the expansion of US 95 in Las Vegas, Nevada. Presented at the *Northern Transportation & Air Quality Summit 2010, Cambridge, MA, August 24-26* by Sonoma Technology, Inc., Petaluma, CA (STI-906034-3930).
- 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.
- Roberts P.T., DeWinter J.L., and Brown S.G. (2010) Characterization of a year of near-road NO₂ measurements in Las Vegas, Nevada. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3814).
- 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).
- 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., 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).
- 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.
- 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., Rainney 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., Steve R., 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 Sigma Xi Student Research Conference, Christopher Newport University, Newport News, VA.

Formal Reports

- 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.
- 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.
- 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 NO₂ 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.
- 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.
- 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 Rachel Mintz, 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.
- 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.
- 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.