

Full Publication List for Tim Dye

Journal Articles

- Dye T., Graham A., and Hafner H. (2016) Air sensor study design: details matter. *Air & Waste Management Association's EM Magazine*, November.
- Dye T.S., Gordon B.J., and Roberts P.T. (2014) Air sensors: quality data for the right application. *Air & Waste Manag. Assoc.'s EM*, 22-27 (STI-5929), August.
- 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. (2013) 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/>.
- Scheffe R., Philbrick R., MacDonald C.P., Dye T.S., Gilroy M., and Carlton A. (2009) Observational needs for four-dimensional air quality characterization. *Air & Waste Manag. Assoc.'s EM*, October 2.
- MacDonald C.P., McCarthy M.C., Dye T.S., Wheeler N.J.M., Hafner H.R., and Roberts P.T. (2006) Transport and dispersion during wintertime particulate matter episodes in the San Joaquin Valley, California. *J. Air & Waste Manag. Assoc.* 56, 961-976 (STI-902329-2660).
- Shearer K.B., Dye T.S., Arno J., and Kobza L. (2005) AirAlert—air quality notification service for the public. *Air & Waste Manag. Assoc.'s EM*, September 19-24.
- Wayland R.A. and Dye T.S. (2005) AIRNow: America's resource for real-time and forecasted air quality information. *Air & Waste Manag. Assoc.'s EM*, September 25-30.
- McKeen S., Wilczak J., Grell G., Djalalova I., Peckham S., Hsie E.-Y., Gong W., Bouchet V., Menard S., Moffett R., McHenry J., McQueen J., Tang Y., Carmichael G., Pagowski M., Chan A.C., Dye T.S., Frost G., Lee P., and Mathur R. (2005) Assessment of an ensemble of seven real-time ozone forecasts over eastern North America during the summer of 2004. *Journal of Geophysical Research*, 110(D21307).
- Dabberdt W.F., Carroll M.A., Baumgardner D., Carmichael G., Cohen R., Dye T., Ellis J., Grell G., Grimmond S., Hanna S., Irwin J., Lamb B., Madronich S., McQueen J., Meagher J., Odman T., Pleim J., Schmid H.P., and Westphal D.L. (2004) Meteorological research needs for improved air quality forecasting. Report of the 11th Prospectus Development Team of the U.S. Weather Research Program. *Bull. Am. Meteorol. Soc.* April, 563-586.
- Wayland R.A., White J.E., Dickerson P.G., and Dye T. (2002) Communicating real-time and forecasted air quality to the public: current state and future plans. *Air & Waste Manag. Assoc.'s EM*, December 28-36.
- MacDonald C.P., Roberts P.T., Main H.H., Dye T.S., Coe D.L., and Yarbrough J. (2001) The 1996 Paso del Norte Ozone Study: phenomena that influence the local ozone concentrations. *Sci. Total Environ.* (Special Issue: U.S.-Mexico Transboundary Air Pollution Studies) 276, Nos. 1-3, 93-110 (STI-1949).
- Lindsey C.G., Chen J., Dye T.S., Richards L.W., and Blumenthal D.L. (1999) Meteorological processes affecting the transport of emissions from the Navajo Generating Station to Grand Canyon National Park. *J. Appl. Meteorol.* 38, No. 8, 1031-1048.
- Dye T.S., Roberts P.T., and Korc M.E. (1995) Observations of transport processes for ozone and ozone

precursors during the 1991 Lake Michigan Ozone Study. *J. Appl. Meteorol.* 34, 1877-1889 (STI-1394).

Wilczak, J.M., Strauch R.G., Ralph F.M., Weber B.L., Merritt D.A., Jordan J.R., Wolfe D.E., Lewis L.K., Wuertz D.B., Gaynor J.E., McLaughlin S.A., Rogers R.R., Riddle A.C., and Dye T.S. (1995): Contamination of wind profiler data by migrating birds: characteristics of corrupted data and potential solutions. *J. Atmos. Oceanic Technol.*, 12 (3) 449-467.

Meeting Presentations and Conference Proceedings

Dye T. (2017) Low-cost sensors results and lessons learned. Presented at the Small Sensors Workshop at UC Davis, Davis, CA, April 13, by Sonoma Technology, Inc. STI-6715.

Dye T. (2017) Using low-cost PM sensors for industrial, government, and educational applications. Presented at the New Jersey Clean Air Council Public Hearing in Trenton, NJ, by Sonoma Technology, Inc. Petaluma, CA, STI-6706, April 5.

Dye T., Stanton L., MacDonald C., Smith K., Roberts P., and Dillon M. (2017) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *Primary Quality Assurance Organization (PQAO) meeting in Pomona, CA, January 24-26*, by Sonoma Technology, Inc., Petaluma, CA. STI-6644.

Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., and Dillon M. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *National Association of Clean Air Agencies, Minneapolis, MN, October 17*. STI-6593.

Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., Dillon M., and Chan A. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *Better Air Quality Conference, Busan, South Korea, September 1*, by Sonoma Technology, Inc., Petaluma, CA. STI-6525.

Dye T., Chan A., and Morales L. (2016) Introduction to Kids Making Sense. Presented at the *Better Air Quality Conference AirNow Community Pre-Event, Busan, South Korea, August 29*. STI-6572.

MacDonald C.P., Stanton L.G., and Dye T.S. (2016) Upper-air meteorological instruments: cost, installation, maintenance, and data use considerations. Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8-11*. STI-6515.

Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., and Dillon M. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8-11*. STI-6517.

Dye T. (2016) Good decisions from good data: helping organizations collect, manage, and distribute air quality data. Presented at the Capitol Hill briefing series, "Advances in earth science: data as a national asset for decision-making", Washington DC, June 22, by Sonoma Technology, Inc., Petaluma, CA. STI-600000-6532. Available at <http://www.sonomatech.com/assets/projects/STI%20-%20Good%20Decisions%20from%20Good%20Data.pptx>.

Dye T.S. (2016) Air pollution information: local to personal. Presented at the Precision Public Health Summit, University of California at San Francisco, June 6-7. STI-6530.

Dye T., Graham A., MacDonald C., McCarthy M., and Roberts P. (2016) Low-cost air quality sensors: interesting projects and future challenges. Presented at the Southern California Environmental Health Sciences Center Seminar Series, Keck School of Medicine, University of Southern California, Los Angeles, CA, April 1, by Sonoma Technology, Inc., Petaluma, CA. STI-6483.

- Dumas J., Penfold B., Healy A., MacDonald C., and Dye T. (2016) eSIMS: Electronic Site Information Management System. Webinar, March 17, presented by Sonoma Technology, Inc., Petaluma, CA. STI-6473.
- Chan A.C. and Dye T.S. (2016) Making sense of Kids Making Sense, a STEM-based air quality program. Presented at the *National Association of Clean Air Agencies 2016 Communicating Air Quality Conference Chicago, IL, March 15-17*. STI-6435.
- Dye T. and MacDonald C. (2016) Data "sharing" (and all the parts to make that happen). Presented at the *American Meteorological Society Forum on Observing the Environment from the Ground Up, Washington, DC, March 8*, by Sonoma Technology, Inc., Petaluma, CA. STI-6466.
- 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.
- Dye T. and Chan A. (2015) Kids Making Sense. Presentation given at the *AGU Fall Meeting, San Francisco, CA, December 18*, by Sonoma Technology, Inc., Petaluma, CA. STI-6328.
- Ekstrand A.L., Haderman M.D., Chan A.C., Dye T.S., White J.E., and Parajon G. (2015) WebDMS: a real-time environmental data management system. Poster presented at the *2015 AGU Fall Meeting, San Francisco, CA, December 14*, Sonoma Technology, Inc., Petaluma, CA, and the U.S. Environmental Protection Agency, Research Triangle Park, NC. STI-6335.
- Dye T. (2015) State of air sensing. Presented at the annual meeting of the *National Association of Clean Air Agencies, New Orleans, LA, October 5*, by Sonoma Technology, Inc., Petaluma, CA. STI-6362.
- Dye T.S. and Chan A.C. (2015) Kids Making Sense. Presented at the *National Association of Clean Air Agencies Fall Membership Meeting, New Orleans, LA, October 4-7*. STI-6363.
- Dye T.S. and Chan A.C. (2015) Kids Making Sense - introduction to particle pollution. Presented at the Kids Making Sense Teacher's Training, Taipei, Taiwan, April 18. STI-915102-6247.
- Dye T.S. and Chan A.C. (2015) Kids Making Sense. Presented at the Kids Making Sense Teacher's Training, Taipei, Taiwan, April 18. STI-915102-6246.
- Dye T.S. and Graham A.R. (2015) Current state of advanced air monitoring. Presented to the E-Enterprise Advanced Monitoring Opportunity Assessment Team, August 17. STI-915113-6339.
- Huang S., Dye T., and Miller D. (2015) Kids Making Sense Sacramento project. Presented to the Sacramento Metropolitan Air Quality Management District, Sacramento, CA, May 27, by Sonoma Technology, Inc., Petaluma, CA. STI-914089-6287.
- Graham A. and Dye T. (2015) Sensor candidates for tribal study. Presented to the U.S. EPA Office of Air Quality Planning and Standards, April 3, by Sonoma Technology, Inc., Petaluma, CA. STI-915107-6232.
- Dye T.S. and Chan A.C. (2015) Air quality outreach to create awareness: background, approaches, and examples. Presented to the Shakti Sustainable Energy Foundation, New Delhi, India, April. STI-915021-6248.
- Dye T. (2015) Sensing a change in the air. Presented at the J.B. and Maurice C. Shapiro Environmental Law Symposium: Advanced Monitoring, Remote Sensing, and Data Gathering, Analysis and Disclosure in Compliance and Enforcement, Washington, DC, March 26, by Sonoma Technology, Inc., Petaluma, CA. STI-6219.
- Raffuse S.M., Dye T.S., and Hafner H.R. (2015) Personal air quality monitoring of the King Fire. Presented at the *2015 Smoke Management in the Northwest Meeting, Boise, ID, March 18*. STI-6217.

- Dye T.S. and Chan A.C. (2014) Applications of lower-cost sensors for air quality monitoring. Presented at the *Better Air Quality Conference, Colombo, Sri Lanka, November 20, 2014*, by Sonoma Technology, Inc., Petaluma, CA. STI-6006.
- Dickerson P., Dye T., and Chan A. (2014) AirNow: communicating air quality in real time. Presented at the *Better Air Quality Conference, Colombo, Sri Lanka, November 19*, by the U.S. Environmental Protection Agency, Research Triangle Park, NC. STI-6166.
- MacDonald C.P., Dye T.S., Gordon B.J., and Hafner H.R. (2014) Using data from small sensors to address air quality issues. Presented at the *California Air Pollution Control Officers Association (CAPCOA) My Air Quality Conference, Oakland and Diamond Bar, CA, November 19-21*, by Sonoma Technology, Inc., Petaluma, CA. STI-6122.
- Dye T.S. (2014) Practical and demonstrated uses of low-cost sensors from regulation to education: the rest of the story. Presented at the *National Ambient Air Monitoring Conference, Atlanta, GA, August 11-14*. STI-5973.
- Dye T.S., Gordon B.J., Heimbinder M., and Huang S. (2014) Kids Making Sense: student scientists finding pollution and taking action. Poster presented at the *Kids Making Sense Workshop, Los Angeles, CA, August 6*. STI-910502-5951.
- Dye T.S., Gordon B.J., and Heimbinder M. (2014) Kids Making Sense: student scientists finding pollution and taking action. Poster presented at the *U.S. EPA's Next Generation Compliance Advanced Monitoring Tech Demo Day, Washington, DC, August 5*. STI-5951.
- 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.
- Dye T.S. (2014) What's happening with air sensing? Presented at the *California Council for Environmental and Economic Balance Summer Issues Seminar, Squaw Creek, CA, July 14*. STI-6019. Dye T. (2014) Kids and youth making sense of air quality. Presented at *MakerCon, Redwood City, CA, May 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-5975.
- Dye T., Russell A., MacDonald C., and Gordon B. (2014) State of air sensor technology. Presented to the *Electric Power Research Institute, Palo Alto, CA, May 9*, by Sonoma Technology, Inc., Petaluma, CA. STI-914007-5938.
- Dye T., Gordon B., and Heimbinder M. (2014) Kids Making Sense. Presented to the *EPA Region 9, San Francisco, CA, April 16*, by Sonoma Technology, Inc., Petaluma, CA, and HabitatMap, Brooklyn, NY. STI-914006-5949.
- Dye T., Raffuse S., Hafner H., and MacDonald C. (2014) Biomass burning's effect on air quality. Presented to *EPRI, San Francisco, CA, February 26*, by Sonoma Technology, Inc., Petaluma, CA. STI-5915.
- Dye T.S. (2014) Low-cost sensing: current status and opportunities. Presented at the *National Air Quality Conference, Research Triangle Park, NC, February 12, 2014*, by Sonoma Technology, Inc., Petaluma, CA. STI-5898.
- 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*. STI-5989.
- Dye T.S. (2014) Low-cost sensing: current status and opportunities. Presented at the *National Air Quality Conference, Research Triangle Park, NC, February 12, 2014*, by Sonoma Technology, Inc., Petaluma, CA. STI-5898.
- Dickerson P., Dye T., and Chan A. (2013) Improving EPA's air quality index maps with NASA satellite data.

- Presented to the Environmental Protection Administration, Executive Yuan, Taiwan, December 14-15, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA. STI-910502-5848.
- Dickerson P., Dye T., and Chan A. (2013) AirNow-Tech. Presented to the Environmental Protection Administration, Executive Yuan, Taiwan, December 12-13, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA. STI-910502-5847.
- Dickerson P., Dye T., and Chan A. (2013) Air quality forecasting. Presented to the Environmental Protection Administration, Executive Yuan, Taiwan, December 12-13, 2013, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA. STI-910502-5849.
- Dickerson P., Dye T., and Chan A. (2013) Future activities for AirNow-International. Presented to Environmental Protection Administration, Executive Yuan, Taiwan, December 12-13, 2013, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA. STI-910502-5851.
- 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 remote 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.
- 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.
- MacDonald C.P., Roberts P.T., McCarthy M.C., Rutter A.P., Dye T.S., Vaughn D.L., Minor H.A., Smith K.M., Henshaw G., Nester S., Morrow D., Winegar E., and Sweet J. (2013) Measuring spatial variability in ozone concentrations using a small-sensor network. Presented at the *A&WMA Air Quality Measurement Methods and Technology Conference, Sacramento, California, November 19-20*, by Sonoma Technology, Inc.; Aeroqual Ltd.; Providence Engineering and Environmental Group, LLC; and the San Joaquin Valley Unified Air Pollution Control District. STI-5750.
- 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.
- Dye T.S. (2013) Low-cost sensing: current status and opportunities. Presented at the National Association of Clean Air Agencies, Baltimore, MD, September 24, 2013, by Sonoma Technology, Inc., Petaluma, CA. STI-5763.
- Pasch A. and Dye T. (2013) Assessing the socioeconomic benefits of adding satellite data to AirNow. Presented to NASA, Washington DC, September 18, by Sonoma Technology, Inc., Petaluma, CA, and the Center for Technology in Government, Albany, NY. STI-910404-5765.
- Dye T.S. and Heimbinder M. (2013) Making sense of air sensing. Presented at the World Maker Faire, New York, NY, September 21, by Sonoma Technology, Inc., Petaluma, CA. STI-813017-5770.
- MacDonald C.P., Dye T.S., Rutter A.P., Robinson D., and Raleigh C. (2013) The "WaterQualityNow" real-time reporting system. Presented to the Water Division, U.S. EPA Region 9, San Francisco, CA, September 9, by Sonoma Technology, Inc., Petaluma, CA. STI-5753.

- MacDonald C., Vaughn D., Roberts P., Dye T., Rutter A., Minor H., McCarthy M., Smith K., Nester S., Morrow D., Winegar E., and Sweet J. (2013) San Joaquin Valley ozone saturation study: study update. U.S. Environmental Protection Agency, Region 9, San Francisco, CA, September 9, Sonoma Technology, Inc., Petaluma, CA. STI-913040-5754.
- Dye T.S. (2013) How good is it? Experiments in quality with multiple dimensions. Presented at Next Generation Air Monitoring Workshop - Air Sensors 2013: Data Quality and Applications, Research Triangle Park, NC, March 19-20. (STI-5613).
- Dye T.S., Rutter A.P., Gordon B.J., and Snyder E. (2013) Sensor performance and application guidelines. Presented at the Next Generation Air Monitoring Workshop - Air Sensors 2013: Data Quality and Applications, Research Triangle Park, NC, March 19-20, Sonoma Technology, Inc., Petaluma, CA. (STI-910415-5614).
- Dye T.S. (2013) A scientist with sensors and spare time: backyard comparisons of particulate matter sensors. Poster presented at the Next Generation Air Monitoring Workshop - Air Sensors 2013: Data Quality and Applications, Research Triangle Park, NC, March 19 (STI-5602).
- Rutter A.P., Miller D.S., Dye T.S., Healy A.N., West J.W., and Gray E.A. (2013) Preliminary solutions for managing big data from small sensors. Poster presented at the Next Generation Air Monitoring Workshop - Air Sensors 2013: Data Quality and Applications, Research Triangle Park, NC, March 19-20. (STI-5603).
- Gordon B.J., Dye T.S., and Rutter A.P. (2013) Managing, quality controlling, and displaying big data: the Data Management System (DMS). Poster presented at the Next Generation Air Monitoring Workshop - Air Sensors 2013: Data Quality and Applications, Research Triangle Park, NC, March 19-20. (STI-5610).
- Dickerson P., Fu J., Chan A.C., and Dye T.S. (2012) AirNow Program and Air Quality Management. Presented at the Better Air Quality Conference, Hong Kong, China, December 5 (STI-5376).
- 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. (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 (STI-5436).
- Dye T.S., Chan A.C., Ludewig S.A., Beach C.M., Haderman M.D., Healy A.N., Ray A.E., and Gray E.A. (2012) Overview of State Department's Air Quality Monitoring, Data Management, and Public Reporting System Project. Presented at the United States Embassy in Beijing, December 3, Sonoma Technology, Inc., Petaluma, CA.
- Dye T.S., Zahn P.H., and Gordon B.J. (2012) Citizen sensing - value of participation. Presented at Bring Your Own Data Washington, DC, November (STI-5537).
- Zahn P., Pasch A., Dye T., and Jennings C. (2012) Satellite remote sensing and air quality. Video prepared for the U.S. EPA, Research Triangle Park, NC, October 31, by Sonoma Technology, Petaluma, CA (STI-910306-5497).
- Zahn P., Pasch A., Dye T., and Jennings C. (2012) ASDP methodology for satellite-based PM_{2.5} estimates. Video prepared for the U.S. EPA, Research Triangle Park, NC, October 31, by Sonoma Technology, Petaluma, CA (STI-910306-5500).
- Chan A.C., Dye T.S., Evarts D., and Jang C. (2012) Regional air quality management: U.S. AirNow perspectives. Presented at the 2nd Sino-U.S. Regional and Urban Air Quality Management Conference, Shanghai, China, June 19-20 (STI-910301-5397).
- Dye T.S., Roberts P.T., Chan A.C., and Alrick D.M. (2012) Low-cost sensing by citizens and community groups:

- current status and opportunities. Presented at the *National Air Quality Conference–Ambient Monitoring 2012, Denver, CO, May 14-17*, by Sonoma Technology, Inc., Petaluma, CA (STI-5354).
- Zahn P.H., Miller D.S., Dye T.S., Ellenburg J., Birks J.W., Prince J., Willford C., Reddy P.J., and Payton R. (2012) Improving AirNow ozone maps with citizen monitoring. Poster presented at the *National Air Quality Conference - Ambient Air Monitoring, Denver, CO, May 14-17* (STI-4353).
- Zahn P., Miller D., and Dye T. (2012) Benefits analysis of GO3 ozone data. Presented to *Apps and Sensors for Air Pollution (ASAP) Workshop, Research Triangle Park, NC, March 26*, by Sonoma Technology, Inc., Petaluma, CA (STI-910318-4368).
- Dye T.S. (2011) Understanding the world with personally collected data. Presented at *Ignite@AGU, San Francisco, CA, December 7* (STI-4297). Available on the Internet at <http://igniteshow.com/videos/understanding-world-personally-collected-data-tim-dye>.
- 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).
- Dye T.S., Roberts P.T., Chan A.C., and Alrick D.M. (2011) Low-cost sensing by citizens and community groups: current status and opportunities. Presented to the U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-910216-4278, November 10.
- Miller D.S., Dye T.S., and Zahn P.H. (2011) AIRNow-GO3 pilot project: preliminary results. October 24 Sonoma Technology, Inc., Petaluma, CA (STI-910301-4261).
- McDonald C., Miller D., and Dye T. (2011) Environmental monitoring data software. Presented on October 19 by Sonoma Technology, Inc., Petaluma, CA. STI-911501-4249.
- Dye T.S., Chan A.C., and Alrick D.M. (2011) Community groups/tribal air quality needs and how AIRNow can help: a report from EPA project EP-D-09-097. Presented to the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October, by Sonoma Technology, Inc., Petaluma, CA (STI-910216-4227).
- Dye T.S., Dickerson P.G., White J.E., and Chan A.C. (2011) AIRNow's future: success through collaboration. Presented at *AMS Summer Community Meeting, Boulder, CO, August 8* Sonoma Technology, Inc., Petaluma, CA (STI-4176).
- Dye T.S. (2011) Do you really know your data users (and what matters to them)? Presented at the *Earth Science Information Partners Summer Meeting, Santa Fe, NM, July 12-15*, by Sonoma Technology, Inc., Petaluma, CA (STI-4166).
- Dye T.S. and Jackson S. (2011) Quality control and data analysis 101. Presentation given at the *Global Ozone Project Summit, Denver, Colorado, May 2* (STI-4131).
- Chan A.C., Dye T.S., White J.E., Dickerson P.G., Evarts D., and Fu J.Q. (2011) AIRNow-International Shanghai Implementation for Air Quality Management. Presented at the *Mainland China-Taiwan-Pacific Rim Conference on Climate and Air Quality, Waikoloa, Hawaii, March 16, 2011* by Sonoma Technology, Inc., Petaluma, CA; the U.S. Environmental Protection Agency, Research Triangle Park, NC; and the Shanghai Environmental Monitoring Center, Shanghai, China (STI-4011).
- Dye T.S., Zahn P.H., Alrick D.M., White J.E., Birks J., and Ellenburg J. (2011) Estimating the value of data from non-governmental agencies and citizens to the AIRNow program. Presented at the *National Air Quality Conferences, San Diego, CA, March 7-10*, by Sonoma Technology, Inc., Petaluma, CA (STI-4068).
- MacDonald C.P., Miller D.S., Dye T.S., Craig K.J., and Alrick D.M. (2011) Adjusting numerical model data in real

- time: AQMOS. Presented at the *2011 National Air Quality Conferences, San Diego, CA, March 7-10*, Sonoma Technology, Inc., Petaluma, CA. (STI-4096).
- Jackson S.A., Zahn P.H., MacDonald C.P., Pasch A.N., Chan A.C., Dye T.S., and White J.E. (2011) Techniques for improving air quality maps with data fusion. Presented at the *American Meteorological Society Annual Meeting, 13th Conference on Atmospheric Chemistry, Seattle, WA, January 26*.
- Keating T., Dye T., Falke S., Ludewig S., Shankar U., McClure S., and Lough G. (2011) CyAir: cyberinfrastructure for air quality management. Poster presented at the *ESIP Federation Winter Meeting, Washington, D.C., January 4-6*, by Sonoma Technology, Inc., Petaluma, CA. STI-910207-4054.
- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. s Evaluating the use of many low-cost sensors for monitoring NO₂ gradients. Presented to *NACAA Monitoring Steering Committee, San Francisco, CA, December 1* (STI-4044).
- Miller D., MacDonald C., Dye T., Craig K., and Alrick D. (2010) AQMOS: air quality model output statistics from CMAQ model forecasts. Poster presented at the *9th Annual CMAS Conference, Chapel Hill, NC, October 11-13* by Sonoma Technology, Inc., Petaluma, CA (STI-3897).
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