

Journal Articles

- 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/>.
- Salathé E.P., Jr., Steed R., Mass C.F., and Zahn P.H. (2008) A high-resolution climate model for the U.S. Pacific Northwest: mesoscale feedbacks and local responses to climate change. *Journal of Climate*, 21 (21), 5708-5726.

Meeting Presentations and Conference Proceedings

- Zahn P.H., Irwin S.T., and Beamish J.J. (2021) Challenges in forecasting dust and wildfire smoke. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-7578.
- Zahn P., Beamish J., and Pavlovic N. (2020) Incorporating smoke impacts into air quality forecasting. Presentation given at the *3rd International Smoke Symposium, April 20*, by Sonoma Technology, Inc., Petaluma, CA. STI-7207.
- Pavlovic N.R., Craig K.J., and Zahn P.H. (2018) Managing air quality impacts from agricultural burning: case studies and lessons learned from smoke information systems developed in the United States. Presented at the *2018 Better Air Quality Conference, Kuching, Malaysia, November 13*, by Sonoma Technology, Inc., Petaluma, CA. STI-6928.
- Pavlovic N., Brown S., O'Brien T., Huang S., Craig K., Zahn P., Penfold B., and Jaffe D. (2018) Wildland fire smoke from long-range transport enhances ozone in the Southeastern U.S. Presentation given at the *National Ambient Air Monitoring Conference, Portland, OR, August 16*, by Sonoma Technology, Inc., Petaluma, CA, and the University of Washington, Bothell, WA. STI-6934.
- Zahn P., Chan A., and MacDonald C. (2018) Air quality forecasting for the Sacramento region. Presented to the Sacramento Metropolitan Air Quality Management District, April 24, by Sonoma Technology, Inc., Petaluma, CA. STI-916076-6910.
- Hylton M., Pavlovic N., and Zahn P. (2018) Using new statistical approaches to update daily ozone concentration forecasting tools. Presentation given at the *National Air Quality Conference, Austin, TX, January 25*, by Sonoma Technology, Inc., Petaluma, CA. STI-6769.
- Zahn P.H. (2016) Central Ohio ozone pollution: looking back at the 2016 season. Presented to the Mid-Ohio Regional Planning Commission, Columbus, OH, October 13, by Sonoma Technology, Inc., Petaluma, CA. STI-914090-6592.
- Zahn P. (2016) Central Ohio air quality overview: forecasting, trends, and outreach. Presented at the *Safe Routes to School National Conference, Columbus, OH, April 5*, by Sonoma Technology, Inc., Petaluma, CA. STI-914090-6487.
- Hylton M., Zahn P., and Chan A. (2016) 2015 Spare The Air end-of-season report. Presented to the Air Districts of the Sacramento Region, Sacramento, CA, January 27, by Sonoma Technology, Inc., Petaluma, CA. STI-914072-6425.

- Zahn P. and Hylton M. (2015) Central Ohio end of season air quality summary, summer 2015. Presented to the Mid-Ohio Regional Planning Commission, Columbus, OH, November 24, by Sonoma Technology, Inc., Petaluma, CA. STI-914090-6401.
- Zahn P. and Huang S. (2015) Ozone trends and transport patterns in the Mojave Desert and surrounding areas. Presented at the *California Desert Air Working Group Conference, Big Bear, CA, November 19*, by Sonoma Technology, Inc., Petaluma, CA. STI-6399. Available at <http://mdaqmd.ca.gov/ftp/2015CDAWG/17.pptx>.
- Zahn P. and Craig K. (2014) KDHE prescribed burn decision support: system modifications and meteorological analysis. Webinar presented to the Kansas Department of Health and Environment, Topeka, KS, December 30, Sonoma Technology, Inc., Petaluma, CA. 914005-6157.
- Brown S.G., Ekstrand A., Zahn P.H., and Hafner H.R. (2014) Wintertime 2013-2014 ozone levels in Uintah Basin. Presented at the Ute Tribal Offices, Fort Duchesne, UT, October 1. STI-910505-6072.
- Alrick D.M. and Zahn P.H. (2014) Summer 2014 mid-season ozone recap. Presented to the Mid-Ohio Regional Planning Agency (MORPC), Columbus, OH, July 29. STI-914040-6023.
- Alrick D.M. and Zahn P.H. (2014) Smoke transport and high PM_{2.5} concentrations in Minnesota, March 30-31, 2014. Presented to the Minnesota Pollution Control Agency, April 1, by Sonoma Technology, Inc. STI-911039-5945.
- Zahn P. and Alrick D. (2014) Imperial Valley ozone analysis for 2013. Presented to the Imperial County Air Pollution Control District, El Centro, CA, March 5, Sonoma Technology, Inc., Petaluma, CA. STI-913015-5926.
- Alrick D. and Zahn P. (2014) Air quality forecasting for Central Ohio. Presented to the Mid-Ohio Regional Planning Commission, Columbus, OH, February 19, by Sonoma Technology, Inc., Petaluma, CA. STI-911044-5927.
- Gordon B., Zahn P., LaGuardia N., and Toft B. (2014) Developing a PM_{2.5} forecasting program for the Leech Lake Reservation. Poster presented at the *National Air Quality Conference, Raleigh, NC, February 10-12*, by Sonoma Technology, Inc., Petaluma, CA. STI-5890.
- 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, CA, December 9*, by Sonoma Technology, Inc., Petaluma, CA. 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*, by Sonoma Technology, Inc., Petaluma, CA. STI-5734.
- Zahn P., LaGuardia N., and Toft B. (2013) Developing a PM_{2.5} forecasting program for the Leech Lake Reservation. Presented to the *Region 5 Tribal Air Quality Conference, Chicago, IL, November 6*, by Sonoma Technology, Inc., Petaluma, CA. STI-910501-5823.
- 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.
- Zahn P., Miller D.S., and MacDonald C.P. (2013) 2012 ozone forecasting and outreach end-of-season report. Prepared for the Air Districts of the Sacramento Region by Sonoma Technology, Inc., Petaluma, CA (STI-911003-5577).
- 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., Zahn P.H., and Gordon B.J. (2012) Citizen sensing - value of participation. Presented at *Bring Your Own Data, Washington, DC, November 14* (STI-5537).
- Craig K.J., MacDonald C.P., Wheeler N.J., Healy A.N., Zahn P.H., Gross T., and Watson D. (2012) A prescribed burn decision support system for the Kansas Flint Hills region. Poster presented at the *11th Annual CMAS Conference, Chapel Hill, NC, October 15-17* (STI-5484).
- Zahn P.H. and Chan A.C. (2012) Transboundary pollution in the United States and internationally. Presented at *Summit on Sustainability and the Environment, Columbus, OH, October 3* (STI-5447).
- MacDonald C.P., Zahn P.H., Lurmann F.W., and Ray A.E. (2012) Effectiveness of regulatory PM_{2.5} monitors for episodic wood burning bans. Poster presented at the *National Air Quality Conference - Ambient Air Monitoring, Denver, CO, May 14-17*, by Sonoma Technology, Inc., Petaluma, CA (STI-4356).
- 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 at the *Apps and Sensors for Air Pollution (ASAP) Workshop, Research Triangle Park, NC, March 26*, by Sonoma Technology, Inc., Petaluma, CA (STI-910318-4368).
- Chan A.C., LaGuardia N.M., Gordon B.J., and Zahn P.H. (2012) Review of the 2011 summer smog season in Columbus, Ohio. Presented at the MORPC Board Meeting, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-911037-5325, March 8.
- 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., 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).
- 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*.
- Johnson J., Zahn P., and Shell N. (2010) MPCA Forecasting Summary 2010. Presented to the Minnesota Pollution Control Agency, St. Paul, MN, June 3, by Sonoma Technology, Inc., Petaluma, CA (STI-3880).

- White J.E., Dickerson P.G., Jackson S.A., Chan A.C., Zahn P.H., Johnson J.A., and Miller D.S. (2010) 2009: a year of AirNow changes and milestones. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18*, by the U.S. Environmental Protection Agency, Research Triangle Park, NC, and Sonoma Technology, Inc., Petaluma, CA (STI-3804).
- Miller D.S., MacDonald C.P., Pasch A.N., and Zahn P.H. (2009) Fundamentals of air quality forecasting: PM_{2.5} focus. Presented at the *National Air Quality Conference Forecaster's Training, Dallas, TX, March 2*, by Sonoma Technology, Inc., Petaluma, CA (STI-905501-3580).
- Knoderer C.A., MacDonald C.P., Zahn P.H., and Gilroy M. (2008) Remote sensing meteorological instrumentation to support photochemical assessment monitoring stations (PAMS). Presented at the *Air & Waste Management Association Symposium on Air Quality Measurement Methods and Technology, Chapel Hill, NC, November*, by Sonoma Technology, Petaluma, CA (STI-3416).
- Wade K.S., Zahn P.H., and Brown S.G. (2008) Application of rotational tools to improve receptor modeling results. Presented at the *AAAR 27th Annual Conference, Orlando, FL, October 23*, by Sonoma Technology, Inc., Petaluma, CA (STI-3353).
- Jackson S.A., Johnson J.A., and Zahn P.H. (2008) Communicating air quality during wildfires: case study and useful resources. Presented at the *2008 AMS Conference on Broadcast Meteorology, Denver, CO, June* (STI-3392).
- Zahn P.H. and MacDonald C.P. (2008) AirNow Mapper: EPA's new air quality mapping system. Presented at the *National Air Quality Conferences, Portland, OR, April 7* (STI-905413-3299).
- Zahn P.H. and MacDonald C.P. (2008) Demonstration of data fusion methods for AQI maps. Presented to the U.S. Environmental Protection Agency by Sonoma Technology, Inc., Petaluma, CA (STI-905413-3435).
- Knoderer C.A., MacDonald C.P., and Zahn P.H. (2007) The relationship among air quality, mixing layer heights, and winds observed during the TexAQS-II field study – preliminary results. Poster presented at the *Fall 2007 American Geophysical Union Conference, San Francisco, CA, December 14*, by Sonoma Technology, Inc., Petaluma, CA (STI-3220).

Formal Reports

- Beamish J.J., Irwin S.T., and Zahn P.H. (2023) State of Delaware final report: ozone observations and forecasts in 2022. Final report prepared for the Delaware Department of Natural Resources and Environmental Control, Wilmington, DE, by Sonoma Technology, Petaluma, CA, STI-920026-7888, March 31.
- Beamish J.J., Irwin S.T., and Zahn P.H. (2022) State of Delaware final report: ozone observations and forecasts in 2021. Final report prepared for the Delaware Department of Natural Resources and Environmental Control, Wilmington, DE, by Sonoma Technology, Petaluma, CA, STI-920026-7710, March 31.
- Beamish J. and Zahn P. (2020) Eastgate end of season report, summer 2020. Report prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-919012-7475, November.
- Beamish J. and Zahn P. (2020) Eastgate end of season report, winter 2019-2020. Report prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-919012-7291, May.

- Beamish J. and Zahn P. (2020) Yolo-Solano end of season air quality report, November 2019 through February 2020. Report prepared for the Yolo-Solano Air Quality Management District, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918078-7276, March.
- Beamish J. and Zahn P. (2019) Louisiana Air Quality Summary, 2019. Report prepared for the Louisiana Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-918056-7249.
- Beamish J. and Zahn P. (2019) Eastgate end of season report, summer 2019. Report prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-919012-7209, November.
- Pavlovic N., Huang S., Craig K., and Zahn P. (2019) Smoke information system for Mexico City: understanding and managing air quality impacts of smoke from wildland fires and agricultural burning. White paper prepared by Sonoma Technology, Inc., Petaluma, CA, STI-7100, May 2.
- Beamish J. and Zahn P. (2019) Eastgate end of season report, winter 2018-2019. Report prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-919012-7118, May.
- Zahn P. and Beamish J. (2019) Yolo-Solano end of season air quality report, November 2018 through February 2019. Report prepared for the Yolo-Solano Air Quality Management District, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-918078-7096, March.
- Zahn P.H. and Hylton M.W. (2018) Central Ohio end of winter season air quality report, November 2017 through October 2018. Report prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-918009-2834, November.
- Zahn P.H. (2018) Yolo-Solano end of season air quality report, November 2017 through February 2018. Report prepared for the Yolo-Solano Air Quality Management District, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-917068-6903, April.
- Pavlovic N., Penfold B., Zahn P., Craig K., Huang S., O'Brien T., and Brown S. (2018) Tier 1 and 2 smoke exceptional event analyses for Louisiana, September 14, 2017. Final report prepared for the Louisiana Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-918003-6876, February 20.
- Hylton M., Zahn P., and Chan A. (2017) 2016 Spare The Air end-of-season report. Prepared for the Air Districts of the Sacramento Region, Sacramento, CA, January 24, by Sonoma Technology, Inc., Petaluma, CA, STI-914073-6649.
- Zahn P., Erdakos G., Baringer L., Craig K., Hylton M., and MacDonald C. (2016) Assessment of the prescribed burn rules for the Mojave Desert Air Quality Management District. Technical memorandum prepared for the Mojave Desert Air Quality Management District, Victorville, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-915028-6456-TM, February.
- Zahn P.H. and Hylton M.W. (2015) Smoke impacts in Minneapolis-St. Paul and Rochester, June-July 2015. Technical memorandum prepared for the Minnesota Pollution Control Agency by Sonoma Technology, Inc., Petaluma, CA, STI-914043-6324, July.

- Zahn P. (2015) Procedure for developing new prescribed burn rules for MDAQMD. Technical memorandum prepared for the Mojave Desert Air Quality Management District, Victorville, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-914078-6209, March 13.
- Zahn P.H. and Alrick D.M. (2015) Analysis of high PM_{2.5} concentrations in the Twin Cities and Rochester, February 7, 2015. Technical memorandum prepared for the Minnesota Pollution Control Agency by Sonoma Technology, Inc., Petaluma, CA, STI-914043-6197, February.
- Alrick D. and Zahn P. (2014) Analysis of high PM_{2.5} concentrations in the Central Valley, November 4-10. Technical memorandum prepared for the Sacramento Metropolitan Air Quality Management District by Sonoma Technology, Inc., Petaluma, CA, STI-913003-6119, November 13.
- Alrick D., Zahn P., and Gordon B. (2014) Air quality summary, winter 2013-2014. Prepared for the Minnesota Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-911039-5985, May 30.
- Alrick D.M. and Zahn P.H. (2014) Smoke transport and high PM_{2.5} concentrations in Minnesota, March 30-31, 2014. Prepared for the Minnesota Pollution Control Agency, Minneapolis, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-911039-5945, April 1.
- 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.
- Eisinger D., Brown S., Hafner H., Bai S., Pasch A., Zahn P., and Jumbam L. (2012) Near-road nitrogen dioxide assessment. Final report prepared by Sonoma Technology, Inc., Petaluma, CA, STI-909109-5382-FR, August.
- Zahn P.H., Alrick D.M., and MacDonald C.P. (2012) Assessment of prescribed burn decision support system in 2011. Technical memorandum prepared for the Kansas Department of Health and Environment by Sonoma Technology, Inc., Petaluma, CA, STI-911054-5405-TM, June.
- Zahn P. (2012) Minneapolis-St. Paul air quality forecast analysis, May 18, 2012. Technical memorandum prepared for the Minnesota Pollution Control Agency by Sonoma Technology, Inc., Petaluma, CA, STI-911036-5385-TM, May 24.
- Zahn P. (2010) Minneapolis-St. Paul air quality, winter 2009-2010. Technical memorandum prepared for the Minnesota Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-907021-3842-TM, April 6.
- Reid S.B., Huang S., Pollard E.K., Craig K.J., Sullivan D.C., Zahn P., MacDonald C., and Raffuse S.M. (2009) An almanac for understanding smoke persistence during the 2008 fire season. Final report prepared for the USDA Forest Service, Pacific Southwest Region, STI-908045-3747-FR, November.
- Norris G., Vedantham R., Wade K., Zahn P., Brown S., Paatero P., Eberly S., and Foley C. (2009) Guidance document for PMF applications with the Multilinear Engine. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by the National Exposure Research Laboratory, Research Triangle Park, NC; Sonoma Technology, Inc., Petaluma, CA; University of Helsinki, Helsinki, Finland; Geometric Tools, Inc., Phoenix, AZ; and Lockheed Martin, Systems Engineering Center, Arlington, VA, EPA 600/R-09/032, April.

Zahn P. (2008) Forecast evaluation for Central Ohio, November 4-6, 2008. Technical memorandum prepared for the Mid-Ohio Regional Planning Commission by Sonoma Technology, Inc., Petaluma, CA STI-908039-3528-TM, December.

Videos and Fact Sheets

Beamish J. and Zahn P. (2020) Youngstown-Warren end of season air quality report, April-October 2019. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. STI-919012-7271, March.

Zahn P. and Beamish J. (2019) Youngstown-Warren end of season air quality report, November 2018-March 2019. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. STI-919012-7273, August.

Hylton M., Zahn P., and Dumas J. (2018) Louisiana air quality summary: January 1 through December 31, 2017. Fact sheet prepared for the Louisiana Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-915055-6875, February.

Dumas J.S. and Zahn P.H. (2018) Youngstown-Warren end of season air quality report, April-October 2017. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. 916016-6986, January.

Hylton M.W. and Zahn P.H. (2017) Central Ohio end of winter season air quality report, November 2016 through October 2017. Report prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-914090-6937, November.

Dumas J.S. and Zahn P.H. (2017) Youngstown-Warren end of season air quality report, November 2016-March 2017. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. 916016-6763, July. Available at <https://www.youtube.com/watch?v=VkWp0re1uSY>.

Dumas J. and Zahn P. (2017) Youngstown-Warren air quality summary, November 1, 2016, through March 31, 2017. Report prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-916016-6739, May.

Hylton M.W. and Zahn P.H. (2017) Central Ohio end of winter season air quality report, November 2016 through March 2017. Report prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-914090-6733, May.

Dumas J.S. and Zahn P.H. (2017) Yolo-Solano end of season air quality report, November 2016 through February 2017. Report prepared for the Yolo-Solano Air Quality Management District, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916064-6730, April.

Dumas J.S. and Zahn P.H. (2017) Youngstown-Warren end of season report for April through October 2016. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH by Sonoma Technology, Inc., Petaluma, CA, STI-916016-6625, May.

Zahn P. (2016) Central Ohio end of season air quality summary, summer 2016. Report prepared for the Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-914090-6611, December.

- Dumas J. and Zahn P. (2016) Youngstown-Warren air quality report, November 2015-March 2016. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. STI-916016-6520, August. Available at <https://www.youtube.com/watch?v=XzUdTHLtAHM>.
- Gordon B. and Zahn P.H. (2015) Louisiana air quality summary: January 1 through December 31, 2014. Fact sheet prepared for the Louisiana Department of Environmental Quality, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-912019-6184, January.
- Zahn P. and Gordon B. (2014) Minnesota air quality summary: May 1 through September 30. Report prepared for the Minnesota Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, STI-914043-6131, November.
- Zahn P., LaGuardia N., Chan A., Haderman M., Jennings C., and Dye T. (2014) The AirNow-International system. Video prepared by Sonoma Technology, Inc., Petaluma, CA. STI-910502-6115, November 11.
- Zahn P., LaGuardia N., Jennings C., and Dye T. (2014) Tutorial: MetDat on AirNow-Tech. Video prepared by Sonoma Technology, Inc., Petaluma, CA. STI-910507-5935, September 18.
- Zahn P., LaGuardia N., Jennings C., and Dye T. (2014) Mahoning Valley air quality report, 2013-2014 winter season. Video prepared for the Eastgate Regional Council of Governments, Youngstown, OH by Sonoma Technology, Inc., Petaluma, CA, STI-914016-5952, June.
- Zahn P., Miller D., LaGuardia N., and Jennings C. (2014) Overview of AQMOS. Video prepared by Sonoma Technology, Inc., Petaluma, CA. STI-714038-5960, May 29.
- Zahn P. and Alrick D. (2014) Youngstown-Warren air quality report, April-October 2014. Video prepared for the Eastgate Regional Council of Governments by Sonoma Technology, Inc., Petaluma, CA. STI-914016-6189, March 9.
- Zahn P., Haste T., LaGuardia N., and Jennings C. (2014) Getting Started with IFTDSS. Video prepared by Sonoma Technology, Inc., Petaluma, CA. STI-913060-5881, February 2014.
- Zahn P., Alrick D., Gordon B., and Jennings C. (2014) Mahoning Valley end of season air quality summary for fall 2013. Video Prepared for the Eastgate Regional Council of Governments, Youngstown, OH, by Sonoma Technology, Inc., Petaluma, CA. STI-913019-5845, January 16.
- Zahn P., Pasch A., LaGuardia N., and Jennings C. (2013) Case study for the AirNow Satellite Data Processor: September 4, 2013. Video prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA. STI-910404-5787, October 14.
- Zahn P., Pasch A., LaGuardia N., and Jennings C. (2013) Case study for the AirNow Satellite Data Processor: August 8, 2013. Video prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA. STI-910404-5788, October 14.
- Zahn P., Gordon B., and Jennings C. (2013) Eastgate end of season air quality summary for spring 2013. Video prepared for the Eastgate Regional Council of Governments by Sonoma Technology, Inc., Petaluma, CA. STI-913019-5653, July 3.
- Zahn P., Gordon B., and Jennings C. (2013) Louisiana end of year air quality summary for 2012. Video prepared for the Louisiana Department of Environmental Quality by Sonoma Technology, Inc., Petaluma, CA. STI-912019-5595, April 18.

- Zahn P., Alrick D., and Jennings C. (2013) Air quality attainment status in Youngstown-Warren. Video prepared for the Eastgate Regional Council of Governments by Sonoma Technology, Inc., Petaluma, CA. STI-912006-5592, March 13.
- Zahn P., LaGuardia N., and Jennings C. (2012) Mahoning Valley end of season air quality summary, fall 2012. Video prepared for the Eastgate Regional Council of Governments by Sonoma Technology, Inc., Petaluma, CA. STI-912006-5551, December 29. Available at <http://www.youtube.com/watch?v=1lISvWz3cb8>.
- 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. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA. STI-910306-5500, October 31.
- Zahn P., Pasch A., Dye T., and Jennings C. (2012) Satellite remote sensing and air quality. Video prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA. STI-910306-5497, October 31.
- Zahn P., Gordon B., and Jennings C. (2012) Minnesota end of season air quality summary, winter 2011-2012. Video prepared for the Minnesota Pollution Control Agency by Sonoma Technology, Inc., Petaluma, CA. STI-911036-5391, July 5.
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Courses Taught

- Zahn P., Hafner H., Hylton M., and Beamish J. (2020) Air quality forecasting training. Training course presented to the Nevada Department of Environmental Protection by Sonoma Technology, Petaluma, CA, STI-920016-7252, February 11-13.
- Zahn P., Hafner H., and Chan A. (2017) Air quality forecasting training. Training course presented to the Nevada Department of Environmental Protection by Sonoma Technology, Inc., Petaluma, CA, STI-917003-6676, February 28 and March 1.