

Book Chapters

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Journal Articles

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Meeting Presentations and Conference Proceedings

- Mukherjee A., King D., Nathan Pavlovic, Cavallaro A., Lurmann F., and DeWinter J. (2023) Evaluation of three computationally-efficient, high-resolution bias-correction methods for real-time modeled PM_{2.5} 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_{2.5} 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.
- Huang S., Kramer S., Chaveste M., McClure C., and Lurmann F. (2022) Public Health Impact of Prescribed Fire (PHIRE) Study – baseline and projected prescribed fire smoke exposures in California. Presented at the *CAL FIRE Forest Health Research Program Grantee Webinar, November 10*, by Sonoma Technology. STI-7813.
- Huang J., Chang S.Y., Huang S., and Lurmann F. (2022) Understanding the contributions of different types of biomass combustion to ambient PM_{2.5} in the U.S. using CMAQv5.3.3. Poster presented at the *American Association for Aerosol Research (AAAR) conference in Raleigh, North Carolina, October 3-7*, by Sonoma Technology, Petaluma, CA. STI-7792.
- Huang J., Chang S.Y., Huang S., and Lurmann F. (2022) Understanding the contributions of different types of biomass combustion to ambient PM_{2.5} in the U.S. using CMAQv5.3.3. Poster presented at the *21th Community Modeling and Analysis System Conference, Chapel Hill, North Carolina*, by Sonoma Technology, Petaluma, CA. STI-7792.
- 7789Pavlovic N.R., Lurmann F., Li L., Breton C., Wu J., Ritz B., and Habre R. (2022) Transportation-related emissions surrogates support modeling of oxides of nitrogen exposure. Poster presented at the *International Society of Environmental Epidemiology 34th Annual Conference, Athens, Greece, September 18-21, 2022*. STI-7787.
- 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.
- Peterson A.K., Habre R., NuiM. Z., Amin, Farzan S., Eckel S., Lurvey N., Lerner D., Lurmann F., Pavlovic N., Grubbs B., Walker D., Grant E., Bastain T., and Breton C. (2022) Prenatal PM_{2.5} is Associated with Third Trimester Fetal Weight and Abdominal Circumference within the MADRES Cohort. Poster presented at the *2022 Society for Epidemiologic Research (SER) Annual Meeting, Chicago, IL, June 14-17*.
- Miller D.J., Pavlovic N.R., and Lurmann F.W. (2021) Weekly airport NO_x emission trends and NO₂ exposure implications during the COVID-19 pandemic in California. Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-7606.
- Kramer S.J., Huang S., Chaveste M.R., McClure C.D., and Lurmann F.W. (2021) Public Health Impact of Prescribed Fire (PHIRE) Study - baseline and projected prescribed fire smoke exposures in California.

- Poster presented at the *AGU Fall Meeting, New Orleans, LA, December 13-17*, by Sonoma Technology, Inc., Petaluma, CA. STI-7572.
- Huang S., Kramer S., Chaveste M., McClure C., and Lurmann F. (2021) Public health impact of prescribed fire (PHIRE) study - baseline and projected prescribed fire smoke exposures in California. Presentation given at the *Community Modeling and Analysis System virtual conference, November 1-5*, by Sonoma Technology, Inc., Petaluma, CA. STI-7597.
- Pavlovic N.R., Li L., Girguis M., Lurmann F., McClure C., Franklin M., Wu J., Oman L.D., Breton C., Gilliland F., and Habre R. (2021) Use of wildfire smoke indicators in health exposure research: high spatial resolution mapping of PM_{2.5} in California. Poster presented at the *International Society of Exposure Science Annual Meeting (ISES 2021), August 30-September 2*, by Sonoma Technology, Petaluma, CA. STI-7580.
- Johnson M., Eckel S., Chavez T., Amadeus M., Faham D., Cheng W., Lurmann F., Pavlovic N., Grubbs B., Lerner D., Habre R., Farzan S., Bastain T., and Breton C. (2021) Prenatal air pollution exposure and infant weight gain trajectories. Poster presented at the 33rd Annual Conference of the International Society for Environmental Epidemiology, New York City, August 23-26, 2021, by Sonoma Technology, Inc., Petaluma, CA.
- Chang S.Y., Craig K., and Lurmann F. (2021) An environmental data web service based on near road dispersion modeling to support the Los Angeles Pediatric Research Integrating Sensor Monitoring Systems (PRISMS) Informatics Center. Presentation *International Society of Exposure Science, virtual conference*. STI-7589.
- Pavlovic N., McClure C., Brown S., Lurmann F., McDonald-Buller E., Kimura Y., and Wiedinmyer C. (2020) Performance assessment of fire inventory from the National Center for Atmospheric Research (FINN v2.2) wildfire emissions estimates using satellite aerosol observations. Presentation given at the *3rd International Smoke Symposium, April 21*, by Sonoma Technology, Petaluma, CA. STI-7233.
- McClure C.D., Pavlovic N., Brown S., Lurmann F., Kimura Y., McDonald-Buller E., and Wiedinmyer C. (2019) Evaluation of the Fire Inventory from the National Center for Atmospheric Research (FINNv2.2) wildfire emissions using satellite observations. Poster presented at the *2019 American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Inc., Petaluma, CA; the University of Texas at Austin, Austin, TX; and the University of Colorado, Boulder, CO. A23L-2960, STI-7152.
- McDonald-Buller E., Kimura Y., Wiedinmyer C., Joseph M., Pavlovic N., McClure C., Brown S., and Lurmann F. (2019) Development and evaluation of the FINNv2.2 global model application and fire emissions estimates for the expanded Texas air quality modeling domain. Presented at the Texas Air Quality Research Program Workshop, Austin, TX, August 22, by the University of Texas at Austin, Austin, TX, the University of Colorado Boulder, Boulder, CO, and Sonoma Technology, Inc., Petaluma, CA. AQRP Project 18-022, STI-918062-7168.
- Pavlovic N., McClure C., Brown S., Lurmann F., McDonald-Buller E., Kimura Y., and Wiedinmyer C. (2019) Performance assessment of fire inventory from the National Center for Atmospheric Research (FINN v2.2) wildfire emissions estimates using satellite aerosol observations. Presented at the *U.S. EPA International Emissions Inventory Conference, Dallas, Texas, August 2*, by Sonoma Technology, Inc., Petaluma, CA, the University of Texas at Austin, TX, and the University of Colorado at Boulder, CO. STI-7113.
- Chang S.Y., Craig K., Seagram A., Lurmann F., Hosseini A., Sarrafzadeh M., Rocchio R., Habre R., and Bui A. (2018) An environmental data web service based on near-road dispersion modeling to support the Los Angeles Pediatric Research Integrating Sensor Monitoring Systems (PRISMS) Informatics Center. Poster

presented at the *2018 CMAS Conference, October 22-24, Chapel Hill, NC*, by Sonoma Technology, Inc., Petaluma, CA. STI-6994.

- Minor H.A., Lurmann F.W., and Penfold B.M. (2017) Improving the accuracy and usability of residential histories for exposure assessment. Poster at the *Annual Meeting of the International Society of Exposure Science, Research Triangle Park, NC, October 15-19*, by Sonoma Technology, Inc., Petaluma, CA. STI-6729.
- Minor H.A., Noth B., Vaughn D.L., Kwon J., Perrino C., Hammond S.K., and Lurmann F.W. (2015) Temporal and spatial variability of polycyclic aromatic hydrocarbons in Fresno, California, 2014-2015. Presented at the *34th Annual AAAR Conference, Minneapolis, MN, October 12-16*, by Sonoma Technology, Inc., Petaluma, CA. STI-913091-6372.
- 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.
- 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).
- 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, Petaluma, CA (STI-4356).
- 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).
- 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).
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- Alcorn S.H., Lurmann F.W., and Hammond K. (2008) Spatial characteristics of aerosol and gaseous co-pollutant concentrations during FACES. Presentation at the *ISEE/ISEA Conference, Pasadena, CA, October*, by Sonoma Technology, Inc., Petaluma, CA, and University of California, Berkeley, CA (STI-906023-3600).
- Lurmann F.W., Roberts P.T., Vaughn D., Hammond S.K., Perrino C., and Tager I. (2006) Modeling daily exposure of children's exposure to PM, ozone, NO₂, and biological agents in the Fresno Asthma Children's Environment Study (FACES). Poster prepared for *International Conference on Environmental Epidemiology & Exposure, Paris, France, September 2-6* (STI-3019).
- Wheeler N.J.M., Lurmann F.W., Hafner H.R., Chinkin L.R., Sullivan D.C., and Roberts P.T. (2004) Changing roles of oxides of nitrogen as precursors in photochemistry. Presentation to the Annual Meeting of

the West Coast Section, Air & Waste Management Association, Ventura, CA, May 13 by Sonoma Technology, Inc., Petaluma, CA, STI-2539.

- Hammond S.K., Perrino C., Tager I.B., Lurmann F.W., Roberts P.T., Vaughn D.L., Eiguren-Fernandez A., and Miguel A.H. (2004) Naphthalene measurement in ambient air using XAD-2 sorbent tubes. Poster presented at *The International State of the Science Workshop on Organic Speciation in Atmospheric Aerosol Research, at Desert Research Institute, Las Vegas, NV, April 5-7.*
- Hammond S.K., Sugiura M., Noth E.M., Lurmann F.W., Roberts P.T., Hyslop N., Vaughn D., Macher J., Mortimer K., and Tager I. (2003) Concentrations of airborne endotoxin inside and outside homes in the Fresno (CA) Asthmatic Children's Environment Study (FACES). Poster presented at the *2003 American Thoracic Society International Conference, Seattle, WA, May 18-21.*
- Hyslop N.P., Lurmann F.W., Vaughan D.L., Roberts P.T., and O'Brien T.E. (2003) Spatial variability of PM exposures as determined in the Fresno Asthmatic Children's Environment Study (FACES). Poster presentation prepared for an *American Association for Aerosol Research meeting, Pittsburgh, PA, March 31-April 4 (STI-2345).*
- Hyslop N.P., Lurmann F.W., Roberts P.T., and Vaughn D.L. (2002) Microenvironmental sampling in the Fresno Asthmatic Children's Environment Study (FACES). In Conference proceedings of the *Symposium on Air Quality Measurement Methods and Technology, San Francisco, CA, November 14 (STI-900813-2235).*
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