

Journal Articles

- McCarthy M.C., Hafner H.R., Chinkin L.R., and Charrier J.G. (2007) Temporal variability of selected air toxics in the United States. *Atmos. Environ.*, doi:10.1016/j.atmosenv.2007.1005.1037 (STI-2894).
- McCarthy M.C., Eisinger D.S., Hafner H.R., Chinkin L.R., Roberts P.T., Black K.N., Clark N.N., McMurry P.H., and Winer A.M. (2006) Particulate matter: a strategic vision for transportation-related research. *Environ. Sci. Technol.* **40** (18), 5593-5599 (STI-904750-2843). Available on the Internet at <<http://pubs.acs.org/doi/abs/10.1021/es062767i>>.
- Chinkin L.R., Coe D.L., Funk T.H., Hafner H.R., Roberts P.T., Ryan P.A., and Lawson D.R. (2003) Weekday versus weekend emissions activity patterns for ozone precursor emissions in California's South Coast Air Basin. *J. Air & Waste Manag. Assoc.* **53**, pp. 829-843 (STI-999679-2225).
- Funk T.H., Chinkin L.R., Roberts P.T., Saeger M., Mulligan S., Figueroa V.H.P., and Yarbrough J. (2001) Compilation and evaluation of a Paso del Norte emission inventory. *Sci. Total Environ.* (Special Issue: U.S.-Mexico Transboundary Air Pollution Studies) **276**, Nos. 1-3, 135-151 (STI-1942).
- Magliano K.L., Hughes V.M., Chinkin L.R., Coe D.L., Haste T.L., Kumar N., and Lurmann F.W. (1999) Spatial and temporal variations in PM₁₀ and PM_{2.5} source contributions and comparison to emissions during the 1995 Integrated Monitoring Study. *Atmos. Environ.* **33**, 4757-4774.
- Chinkin L.R., Chang D.P.Y., and Floccini R.G. (1986) Relationships among the coefficient of haze, scattering coefficient, and visibility during an agricultural burn season. *J. Air Pollut. Control Assoc.* **36**, 173-178.

Meeting Presentations and Conference Proceedings

- Raffuse S., Gilliland E., Sullivan D., Wheeler N., Chinkin L., Larkin S., Solomon R., Strand T., and Pace T. (2008) Development of wildland fire emission inventories with the BlueSky Smoke Modeling Framework. Presented at the *7th Annual Community Modeling and Analysis System (CMAS) Conference Chapel Hill, NC, October 7*, by Sonoma Technology, Inc., Petaluma, CA; U.S. Forest Service AirFIRE Team, Seattle, WA; and U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC (STI-3457).
- Larkin N.K., Strand T., Solomon R., Raffuse S., Sullivan D.C., Chinkin L., Brown T., O'Neill S., Friedl L., and Knighton R. (2008) The state of smoke tools: What we know now. Presented at the *International Association of Wildland Fire, The '88 Fires: Yellowstone & Beyond, Jackson Hole, WY, September 22-27*, by the U.S. Forest Service AirFIRE Team, Seattle, WA; Sonoma Technology, Inc., Petaluma, CA; Desert Research Institute, Reno, NV; USDA Natural Resource Conservation Service, Portland, OR; NASA, Washington, D.C.; and USDA Cooperative State Research, Education, and Extension Service, Washington, D.C.
- Raffuse S.M., Sullivan D.C., Gilliland E.K., Chinkin L.R., Larkin S., Solomon R., and Pace T. (2008) Development of wildland fire emission inventories for 2003-2006 and sensitivity analyses. Presentation made at the *U.S. Environmental Protection Agency's 17th International Emission Inventory Conference, Portland, OR, June 5*, by Sonoma Technology, Inc., Petaluma, CA; U.S. Forest Service AirFIRE Team, Seattle, WA; and U.S. Environmental Protection Agency Office of Air Quality Planning and Standards, Research Triangle Park, NC (STI-905028-3377).
- Sullivan D.C., Raffuse S.M., Pryden D.A., Craig K.J., Reid S.B., Wheeler N.J.M., Chinkin L.R., Larkin N.K., Solomon R., and Strand T. (2008) Development and applications of systems for modeling emissions and smoke from fires: the BlueSky smoke modeling framework and SMARTFIRE. Paper presented at the *17th International Emissions Inventory Conference, Portland, OR, June 5*, by Sonoma Technology, Inc., Petaluma, CA, and the U.S. Forest Service, Seattle, WA (STI-3378).

- Wheeler N.J.M., Craig K.J., Reid S.B., Gilliland E.K., Sullivan D.C., and Chinkin L.R. (2008) The BlueSky Gateway air quality forecast system for fire management. Presented at the *BlueSky Smoke Modeling Framework Stakeholders' Meeting, Boise, ID, May 20-22* (STI-905028-3367).
- Raffuse S.M., Sullivan D.C., Chinkin L.R., Pryden D.A., Wheeler N.J.M., Larkin N.K., Solomon R., and Soja A. (2007) Integration and reconciliation of satellite-detected and incident command-reported wildfire information in the BlueSky smoke modeling framework. Presented at the *6th Annual CMAS Conference, Chapel Hill, NC, October 1-3*, by Sonoma Technology, Inc., Petaluma, CA, the U.S. Forest Service AirFire Team, Seattle, WA, and the National Institute of Aerospace, Hampton, VA (STI-3227).
- Raffuse S.M., Sullivan D.C., Chinkin L.R., Larkin N.K., Solomon R., and Soja A. (2007) Integration of satellite-detected and incident command-reported wildfire information into BlueSky. Paper No. 205 presented at the *Air & Waste Management Association's 100th Annual Conference & Exhibition, Pittsburgh, PA, June 26-29* (STI-3127).
- Reid S.B., Chinkin L.R., Penfold B.M., and Gilliland E.K. (2007) Emissions inventory validation and improvement: a Central California case study. Conference paper prepared for the *U.S. Environmental Protection Agency's 16th Annual Emission Inventory Conference, Raleigh, NC, May 14-17*, by Sonoma Technology, Inc., Petaluma, CA (STI-3109).
- Raffuse S.M., Sullivan D.C., Chinkin L.R., Larkin S., Solomon R., and Soja A. (2007) Integration of satellite detected and incident command reported wildfire information into BlueSky. Presented at the *BlueSky Annual Meeting, Winthrop, WA, May 22*, by Sonoma Technology, Inc., Petaluma, CA, U.S. Forest Service AirFire Team, Seattle, WA, and the National Institute of Aerospace, Hampton, VA (STI-3086).
- Raffuse S., Chinkin L., Sullivan D., and Larkin N. (2006) Applications of a GIS-based fire emissions model - or - BlueSky SMARTFIRE. Presentation for the *Third International Fire Ecology & Management Congress, San Diego, CA, November 18*, by Sonoma Technology, Inc. and U.S. Forest Service AirFire Team (STI-3041).
- Raffuse S., Chinkin L., and Larkin N. (2006) Evaluation of the BlueSky smoke prediction model using satellite data. Presentation for the *Third International Fire Ecology & Management Congress, San Diego, CA, November 18*, by Sonoma Technology, Inc., Petaluma, CA, and the USFS AirFire Team (STI-2962).
- McCarthy M.C., Hafner H.R., and Chinkin L.R. (2006) Temporal variability and trends in MSATs: a national perspective. Presentation for the *Coordinating Research Council, Mobile Source Air Toxics workshop, Phoenix, AZ, October 25*, Sonoma Technology, Inc., Petaluma, CA (STI-3053).
- Chinkin L. and Reid S. (2006) Improvements to the spatial and temporal representativeness of modeling emission estimates. Presentation to the CCOS Technical Committee, Sacramento, CA, STI-906036.01-2995, July 6.
- Chinkin L.R., Sullivan D.C., Funk T.H., Hafner H.R., Roberts P.T., and Ryan P.A. (2006) Weekday versus weekend activity patterns for ozone precursor emissions in California's South Coast Air Basin. *AWMA's 99th Annual Conference & Exhibition, New Orleans, LA, June 20-23*, by Sonoma Technology, Inc., Petaluma, CA (STI-2954).
- Reid S.B., Brown S.G., McCarthy M.C., and Chinkin L.R. (2006) Comparison of ambient measurements to emissions representations for modeling in California's San Joaquin Valley. Presented to the *U.S. Environmental Protection Agency's 15th Annual Emission Inventory Conference, New Orleans, LA, May 18*, by Sonoma Technology, Inc., Petaluma, CA (STI-2944).

- Raffuse S.M., Sullivan D.C., Chinkin L.R., Larkin S., and Solomon R. (2006) Expanding BlueSkyRAINS to support emission inventory preparation. Presented at the *U.S. Environmental Protection Agency's 15th Annual Emission Inventory Conference, New Orleans, LA, May 17*, by Sonoma Technology, Inc., Petaluma, CA, and U.S. Department of Agriculture, Forest Service, Seattle, WA (STI-2950).
- Hafner H.R., McCarthy M.C., and Chinkin L.R. (2006) National, regional, between-city, and within-city spatial variability in air toxics. Presented at the *AWMA Symposium on Air Quality Measurement Methods and Technology, Durham, NC, May 9*, by Sonoma Technology, Inc., Petaluma, CA (STI-2884).
- Hafner H.R., McCarthy M.C., and Chinkin L.R. (2006) Temporal trends in air toxics. Presented at the *AWMA Symposium on Air Quality Measurement Methods and Technology, Durham, NC, May 9*, by Sonoma Technology, Inc., Petaluma, CA (STI-2885).
- Chinkin L.R. (2005) Comparison of ambient measurements to emissions representations in modeling. Presentation at the California Air Resources Board, CCOS Technical Committee, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905044-2838, October.
- Hafner H.R., McCarthy M.C., and Chinkin L.R. (2005) National air toxics assessments: lessons learned in quantifying ambient air toxics temporal and spatial trends. Presented at the *2005 Air Toxics Summit, Seeking Solutions for our Rural and Urban Communities, Portland, OR, October 18-19* by Sonoma Technology, Inc., Petaluma, CA (STI-905102-2756).
- McCarthy M.C., Hafner H.R., Chinkin L.R., Cozzo E.M., Raffuse S.M., and Gray E.A. (2005) Air toxics monitoring data analysis workshop. Presentation prepared for the U.S. Environmental Protection Agency, Raleigh, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905102-2799, September.
- Wheeler N.J., Chinkin L.R., Reid S.B., Gross T., Hawkins A., Watson D., Vit W., Mefrakis R., and Joerke J. (2005) Regional photochemical modeling for the Kansas City Clean Air Action Plan: what it tells us about the challenges ahead for 8-hr ozone nonattainment areas. Presented at the *4th Annual CMAS Models-3 User's Conference, Chapel Hill, NC, September 26-28*, by Sonoma Technology, Inc., Petaluma, CA; Missouri Department of Natural Resources, Jefferson City, MO; Mid-America Regional Council, Kansas City, MO (STI-2800).
- Raffuse S.M., Brown S.G., Sullivan D.C., and Chinkin L.R. (2005) Estimating regional contributions to atmospheric haze. Presented at the *2005 ESRI International User Conference, San Diego, CA, July 26* (STI-2649).
- Raffuse S.M., Sullivan D.C., and Chinkin L.R. (2005) Emission impact potential - a method for relating upwind emissions to ambient pollutant concentrations. Presented at the *U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2715, STI-2722).
- Reid S.B., Sullivan D.C., Stiefer P.S., and Chinkin L.R. (2005) Development of emission inventories of recreational boats and commercial marine vessels for the Central States Regional Air Planning Association. Presented at the *U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2714, STI-2721).
- Sullivan D.C., Reid S.B., Penfold B.M., and Chinkin L.R. (2005) Development of agricultural dust emission inventories for the Central States Regional Air Planning Association. Presented at the *U.S. Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14* by Sonoma Technology, Inc., Petaluma, CA (STI-2713, STI-2720).
- Sullivan D.C., Reid S.B., Stiefer P.S., Funk T.H., and Chinkin L.R. (2005) On-road mobile source emission inventory development for the Central States Regional Air Planning Association. Presented at the *U.S.*

Environmental Protection Agency 14th International Emission Inventory Conference, Las Vegas, NV, April 11-14 by Sonoma Technology, Inc., Petaluma, CA (STI-2712, STI-2719).

- Reid S.B., Funk T.H., Sullivan D.C., Stiefer P.S., Arkinson H.L., Brown S.G., and Chinkin L.R. (2004) Research and development of emission inventories for planned burning activities for the Central States Regional Air Planning Association. Paper for the *13th International Emission Inventory Conference "Working for Clean Air in Clearwater"*, Clearwater, FL, June 8-10 (STI-2515).
- 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 at the *Annual Meeting of the West Coast Section, Air & Waste Management Association, Ventura, CA, May 13*, STI-2539.
- Bahm K.E., Chinkin L.R., Sullivan D.C., and Broaders K.E. (2004) Task 4.3: detecting source activities and reconciling ambient measurement variations with field observations. Presented to *California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) Data Analysis Workshop, Sacramento, CA, March 9-10* by Sonoma Technology, Inc., Petaluma, CA (STI-902328-2501).
- Coe D.L., Chinkin L.R., Reid S.B., and Stiefer P.S. (2003) Weekday-weekend emissions patterns for southern California: observations and implications. Presented at the *NARSTO Workshop on Innovative Methods for Emission-Inventory Development and Evaluation, University of Texas at Austin, October 14-17* (STI-2421).
- Chinkin L.R., Coe D.L., Hafner H.R., and Tamura T.M. (2003) Air Toxics Emission Inventory Training Workshop. Sponsored by the U.S. Environmental Protection Agency, Region IX, Richmond, CA. Prepared by Sonoma Technology, Inc., Petaluma, CA, 903320-2398, July 15-16.
- Coe D.L., Gorin C.A., Chinkin L.R., and Reid S.B. (2003) Observations of weekday-weekend activity patterns for area sources in the Los Angeles area. Paper and presentation prepared for and presented at the U.S. Environmental Protection Agency, *12th International Emission Inventory Conference "Emission Inventories - Applying New Technologies"*, San Diego, CA, April 28 - May 1 (STI-2278).
- Coe D. L., Chinkin L.R., Stiefer, P.S., and Funk T.H. (2003) Observations of weekday-weekend activity patterns for on-road mobile sources in the Los Angeles area. Presented at the *13th Annual Coordinating Research Council (CRC) On-Road Vehicle Emissions Workshop, San Diego, CA, April 7-9, 2003* (STI-2277).
- Chinkin L.R. and Ryan P.A. (2002) Recommended improvements to the CMU Ammonia Emission Inventory Model for use by LADCO. Paper prepared for and presented at the Midwest RPO Emissions Inventory Meeting, Des Plaines, IL, November 20, by Sonoma Technology, Inc., Petaluma, CA (STI-902350-2280).
- Chinkin L.R., MacDonald C.P., Funk T.H., Crews J.M., Dye T.S., and Wheeler N.J.M. (2002) Preliminary assessment of ozone air quality in the Minneapolis/St. Paul region. Presented at the Minnesota Environmental Initiative Clean Air Minnesota Rollout, St. Paul, MN, October 30, STI-901104-901105-2242.
- Coe D.L., Gorin C.A., and Chinkin L.R. (2002) Emission inventories of OCS production and development activities in the Gulf of Mexico. Presentation at U.S. Department of Interior, Minerals Management Service, New Orleans, LA, September (STI-998203-2262).
- Wheeler N., Lurmann F., Chinkin L., LeBaron B., Barickman P., Eden J., and Cruickshank T. (2002) Wintertime particulate matter modeling issues in the western United States. Presented at *Coordinating Research Council (CRC) Toxics Modeling Conference, The Woodlands, TX, February 27* (STI-2159).

- Chinkin L.R. and Coe D.L. (2002) ARB weekday and weekend emissions studies of the 2002 ozone season. Presented to the California Air Resources Board Weekend Effect Work Group Meeting, Sacramento, CA, February 20, STI-901150-2157.
- Wheeler N.J.M., Lurmann F.W., Ryan P.A., Roney J.A., Roberts P.T., MacDonald C.P., Chinkin L.R., Coe D.L., Hanna S., Seaman N., Hunter G., and Scalfano D. (2001) The SO₂ and NO₂ Increment Analysis for the Breton National Wilderness Area. Presented for the Minerals Management Service and Scientific Review Board, New Orleans, LA, December 13, STI-901369-2135.
- Coe D.L., Ryan P.A., Funk T.H., and Chinkin L.R. (2001) DOE/OHVT weekday-weekend study: emissions activity results. Presented at the Weekday/Weekend Effect Workgroup, California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999677-2124, October 23.
- Funk T.H., Coe D.L., and Chinkin L.R. (2001) Weekday versus weekend mobile source emissions activity patterns in California's South Coast Air Basin. Paper presented at the *International Emission Inventory Conference, Denver, CO, April 30 to May 3* (STI-2065).
- Funk T.H. and Chinkin L.R. (2001) Using GIS technology for emission inventory and air quality applications. Presented at the *SCOS97-NARSTO Data Analysis Conference, February 13-15*, STI-2059.
- Funk T.H. and Chinkin L.R. (2001) Development of spatial allocation factors for the SCOS97 domain. Presented at the *SCOS97-NARSTO Data Analysis Conference, February 13-15* (STI-2053).
- Roberts P.T., Funk T.H., MacDonald C.P., Main H.H., and Chinkin L.R. (2000) Weekday/weekend ozone observations in the South Coast Air Basin. Presented to California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-999670-1966, April 13.
- Funk T.H. and Chinkin L.R. (1999) The use of PAMS data to evaluate emission inventory estimates in California. Preprints in *Emission Inventory Regional Strategies for the Future, Raleigh, NC, October 26-28*, Air & Waste Management Association, Pittsburgh, PA (STI 1876).
- Haste T.L., Kumar N., Chinkin L.R., Roberts P.T., Saeger M., Mulligan S., and Yarbrough J. (1999) Compilation and evaluation of a Paso del Norte emission inventory for use in photochemical dispersion modeling. Paper no. 99-190 presented at the *Air & Waste Management Association 92nd Annual Meeting & Exhibition, St. Louis, MO, June 20-24* (STI 1862).
- Chinkin L.R., Haste T.L., Coe D.L., Puri A.K., Hall J.V., and Levy S. (1998) Emission inventory projection project. Presented at *Air & Waste Management Association's Emission Inventory: Living in a Global Environment, New Orleans, LA, December 8-10* (STI 1840).
- Haste T.L., Kumar N., Chinkin L.R., Roberts P.T., Saeger M., Mulligan S., Figueroa V.H.P., and Yarbrough J. (1998) Compilation and evaluation of a Paso del Norte emission inventory for use in photochemical dispersion modeling. Presented at the *Air & Waste Management Association's Emission Inventory: Living in a Global Environment, New Orleans, LA, December 8-10* (STI 1839).
- Wilkinson J.G., Chinkin L.R., Coe D.L., Fitz D., Loomis C.F., Magliano K., Pankratz D., Ringler E., Waldron T., and Zwicker J. (1998) A model to estimate temporally resolved ammonia emissions at a dairy. *91st Annual Air & Waste Management Association Meeting & Exhibition, San Diego, CA, June 14-18*.
- Chinkin L.R., Main H.H., Reiss R., Roberts P.T., and Romonow S. (1998) Analysis of PAMS data to evaluate reformulated gasoline effects. Presented at the *8th Coordinating Research Council (CRC) On-Road Vehicle Emissions Workshop, San Diego, CA, April 20-23*.

- Coe D.L. and Chinkin L.R. (1998) The use of a day-specific source activity database to augment CMB source apportionment modeling. Paper presented at the *Air & Waste Management Association PM_{2.5} Conference, Long Beach, CA, January 28-30* (STI-1789).
- Haste T.L., Chinkin L.R., Kumar N., Lurmann F.W., and Hurwitt S.B. (1998) Use of ambient data to evaluate a regional emission inventory for the San Joaquin Valley. Paper and presentation at *PM_{2.5} A Fine Particle Standard, Long Beach, CA, sponsored by Air & Waste Management Association, the U.S. Environmental Protection Agency, and the U.S. Department of Energy, January 28-30* (STI-997211-1806, STI-997211-1794).
- Richards L.W., Main H.H., Hurwitt S.B., and Chinkin L.R. (1998) 1995 Integrated Monitoring Study: comparison of light scattering measurements during winter months in the San Joaquin Valley. Presented at *PM_{2.5} A Fine Particle Standard, Long Beach, CA, sponsored by Air & Waste Management Association, the U.S. Environmental Protection Agency, and the U.S. Department of Energy, January 28-30* (STI-997216-1803).
- Main H.H., Roberts P.T., Reiss R., and Chinkin L.R. (1998) Analysis of PAMS data to evaluate reformulated gasoline effects. Paper prepared for presentation at the *Air and Waste Management Association 1998 Annual Meeting and Exhibition, San Diego, CA, June 14-18*.
- Chinkin L. and Haste T.L. (1997) Use of PAMS data to evaluate an emission inventory test case: Southeast Texas. Paper presented at the *Air & Waste Management Association Emission Inventory: Planning for the Future Conference, Research Triangle Park, NC, October 28-30* (STI 1760).
- Coe D., Chinkin L., Loomis C., Wilkinson J., Fitz J., and Pankratz D. (1997) Improvements to the ammonia emission inventory and demonstration of ammonia measurement techniques for California's San Joaquin Valley. Paper presented at the *Air & Waste Management Association Emission Inventory: Planning for the Future Conference, Research Triangle Park, NC, October 28-30* (STI 1761).
- Chinkin L., Prouty J., Coe D., and Martino P.A. (1997) Development of an E&P emissions calculation tool. Paper No. SPE 37913 presented at the *1997 SPE/EPA Exploration and Production Environmental Conference, Dallas, TX, March 3-5* (STI-1707).
- Reiss R. and Chinkin L. (1996) Ozone exceedance data analysis: representativeness of the 1995 summer ozone season in the Northeast. Paper presented at the *First NARSTO-Northeast Data Analysis Symposium and Workshop, Norfolk, VA, December 10-12*.
- Chinkin L.R., Stoelting M.W., and Haste T. (1996) Development of a gridded leaf biomass inventory for use in estimating biogenic emissions for urban airshed modeling. Paper presented at the *Air & Waste Management Association Emission Inventory: Key to Planning, Permits, Compliance & Reporting Conference, New Orleans, LA, September 4-6* (STI-1596).
- Coe D., Chinkin L., Reiss R., DiSogra C., and Hammerstrom K. (1996) An emission inventory of agricultural internal combustion engines for California's San Joaquin Valley. Paper presented at the *Air & Waste Management Association Emission Inventory: Key to Planning, Permits, Compliance & Reporting Conference, New Orleans, LA, September 4-6* (STI-1597).
- Stoekenius T.E., Roberts P.T., and Chinkin L.R. (1996) Development of an objective classification procedure for meteorological scenarios associated with high ozone concentrations in and around the San Francisco Bay area. Presented at the *Air & Waste Management Association 89th Annual Meeting, Nashville, TN, June 23-28*.

- Main H.H., Chinkin L.R., and Roberts P.T. (1996) Analysis of VOC data in support of pollutant transport studies in Shasta County, California. In *Measurement of Toxic and Related Air Pollutants. Proceedings of an Air & Waste Management/U.S. Environmental Protection Agency International Specialty Conference, Raleigh-Durham, NC, May 7-9*, Air & Waste Management, Pittsburgh, PA, (STI-1581), pp. 67-74.
- Heiken J., Austin B., Pollack A., Coe D., Eisinger D., and Chinkin L. (1996) Estimation of local fleet characteristics and activity data for improved emission inventory development. Presented at the *6th Coordinating Research Council On-Road Vehicle Emissions Workshop, San Diego, CA, March 18-20*.
- Chinkin L.R., Main H.H., Rocke D.M., and Chang D.P.Y. (1995) Development of improved temporal, spatial and temperature algorithms for use in emissions modeling: a work plan. Paper presented at the *Air & Waste Management Association Emission Inventory Programs and Progress Conference, Research Triangle Park, NC, October 11-13* (STI-1542).
- Chinkin L.R., Ryan P.A., and Reiss R. (1995) A critical evaluation of biogenic emission systems for photochemical grid modeling in California. Paper presented at the *Air & Waste Management Association Emission Inventory Programs and Progress Conference, Research Triangle Park, NC, October 11-13* (STI-1541).
- Korc M.E., Jones C.M., and Chinkin L.R. (1995) Use of PAMS data to evaluate the Texas COAST emission inventory (preliminary results). Presented at the *Air & Waste Management Association Emission Inventory Programs and Progress Conference, Research Triangle Park, NC, October 11-13* (STI-1566).
- Blanchard C.L., Roberts P.T., Chinkin L.R., and Roth P.M. (1995) Application of smog production (SP) algorithms to the Coastal Oxidant Assessment for Southeast Texas (COAST) data. Paper No. 95-TP15.04 presented at the *Air & Waste Management Association 88th Annual Meeting & Exhibition, San Antonio, TX, June 18-23*.
- Chinkin L.R., Main H.H., Collins J.F., and Young J.R. (1995) Long-term trends in precipitation chemistry in southern California. Paper presented at the *Air & Waste Management Association Acid Rain & Electric Utilities: Permits, Allowances, Monitoring & Meteorology Conference, Tempe, AZ, January 23-25* (STI-1500).
- Chinkin L.R., Korc M.E., and Janssen M. (1994) Comparison of emission inventory and ambient concentration ratios of NMOC, NO_x, and CO in the Lake Michigan air quality region. Paper presented at the *Air & Waste Management Association Emission Inventory Application and Improvement Conference, Raleigh, NC, November 1-3* (STI-1434).
- Korc M.E., Roberts P.T., Chinkin L.R., Lurmann F.W., and Main H.H. (1994) Reconciliation of emission inventory and ambient data for three major regional air quality studies. In *Transactions, Air & Waste Management Association Regional Photochemical Measurement and Modeling Studies Conference, San Diego, CA, November 8-12, 1993*, Air & Waste Management Association, Pittsburgh, PA, (STI-1405).
- Seigneur C., Chinkin L.R., Morris R.E., and Kessler R.C. (1994) Conceptual plan for air quality and meteorological modeling in the San Joaquin Valley. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, P.A. Solomon and T.A. Silver eds., CRC Press, Inc., Boca Raton, FL, 79-106.
- Chinkin L.R., Korc M.E., Roberts P.T., Lurmann F.W., and Main H.H. (1993) Reconciliation of emission inventory and ambient data: current state of knowledge and implications for emission inventory preparation. Paper presented at the *Air & Waste Management Association The Emission Inventory: Perception and Reality Conference, Pasadena, CA, October 18-20*.

- Reynolds S.D., Tesche T.W., Dye T., Roberts P., Franzon D.E., Chinkin L.R., and Reid S.B. (1993) Assessment of planned northeast ozone transport region modeling activities. Paper No. 93-WA-69A.01 presented at the *Air & Waste Management Association 86th Annual Meeting*, Denver, CO, June 14-18.
- Roberts P.T., Korc M.E., Main H.H., Chinkin L.R., and Lurmann F.W. (1993) Reconciliation of emission inventory and ambient data in the Lake Michigan Air Quality Region. Paper No. 93-WP-100.05 presented at the *Air & Waste Management Association 86th Annual Meeting*, Denver, CO, June 14-18.
- Stoeckenius T.E. and Chinkin L.R. (1991) An analysis of historical air quality and emission trends in the Los Angeles Basin. Paper presented at the *Air & Waste Management Association Conference on Tropospheric Ozone and the Environment II: Effects, Modeling and Control*, Atlanta, GA, November 4-7.
- Chinkin L.R., Causley M.C., Gardner L., and Baldrige E. (1991) Advancements in computerized tools for preparing emission inputs for air quality models. Paper presented at *Air & Waste Management Association Emissions Inventory Specialty Conference*, Durham, NC, September 9-12.
- Chinkin L.R. and Magliano K.L. (1991) San Joaquin Valley Air Quality Study Technical Support Study Number 5, emission inventory assessment. Paper presented at the *Air & Waste Management Association 84th Annual Meeting*, Vancouver, BC, June 16-21.
- Chinkin L.R. and Smylie G.M. (1991) The Clean Air Act Amendments of 1990: implications for industry. Paper prepared for the *Air & Waste Management Association Conference: Emission Inventory Issues in the 1990s*, Durham, NC, September 9-12.
- Chinkin L.R., Smylie G.M., and Souten D.R. (1991) Assessing the effects of reformulated gasoline on air quality. Paper no. 91-107.5 presented at the *Air & Waste Management Association 84th Annual Meeting*, Vancouver, BC, June 16-21.
- Dickson R. and Chinkin L.R. (1990) High resolution inventories: current status and future areas of enhancement. Paper presented at the *Air & Waste Management Association 83rd Annual Meeting*, Pittsburgh, PA, June 24-29.
- Morris R. and Chinkin L.R. (1989) Use of the urban airshed model to assess the effects of ethanol-blended fuels on ozone concentrations in New York and St. Louis. Paper no. 89-7.7 presented at the *Air & Waste Management Association 82nd Annual Meeting*, Anaheim, CA, June 25-30.
- Chinkin L.R., Pollack A.K., and Austin B.S. (1988) Characterization of visibility trends in ten U.S. cities. Paper presented at the *Air Pollution Control Association 81st Annual Meeting*, Dallas, TX, June 19-24.
- Chinkin L.R., Latimer D.A., and Hogo H. (1986) Layered haze observed at Bryce Canyon National Park: a statistical evaluation of the phenomenon. In *Transactions of the Air Pollution Control Association International Specialty Conference on Visibility Protection: Research and Policy Aspects*, Grand Teton National Park, WY.

Formal Reports

- Funk T.H., Raffuse S.M., Chinkin L.R., and Rauscher H.M. (2009) The development of an Interagency Fuels Treatment Decision Support System. Presentation made to the Joint Fire Science Program, The National Interagency Fuels Coordination Group, Boise, ID by Sonoma Technology, Inc., Petaluma, CA, and the Joint Fire Science Program, Boise, ID, STI-908038-3587, March 31.
- Funk T.H., Rauscher M., Raffuse S.M., and Chinkin L.R. (2008) Findings of the current practices and needs assessment for the Interagency Fuels Treatment Decision Support System (IFT-DSS) project. Technical memorandum prepared for the Interagency Fuels Treatment Work Group (IFTWG), by Sonoma Technology, Inc., Petaluma, CA, and the Air Fire Science Team, Seattle, WA, STI-908038.01-3504, December.

- Chinkin L.R. and Wheeler J.M.W. (2008) Rebuttal and supplemental expert report: Analysis of air quality impacts. Final report prepared on behalf of Plaintiff United States and Plaintiff-Intervenors State of New York, State of New Jersey, State of Connecticut, Hoosier Environmental Council, and Ohio Environmental Council Sonoma Technology, Inc., Petaluma, CA, STI-908042-3465-FR, October.
- Reid S.B., Chinkin L.R., McCarthy M.C., Raffuse S.M., and Brown S.G. (2008) A comparison of ambient measurements to emissions representations for modeling to support the Central California Ozone Study (CCOS). Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905044.13-3144-FR, October.
- Chinkin L.R. and Wheeler J.M.W. (2008) Expert report of Lyle R. Chinkin and Neil J. M. Wheeler: Analysis of air quality impacts. Final report prepared on behalf of Plaintiff United States and Plaintiff-Intervenors State of New York, State of New Jersey, State of Connecticut, Hoosier Environmental Council, and Ohio Environmental Council by Sonoma Technology, Inc., Petaluma, CA, STI-908042-3432-FR, August.
- Sullivan D.C., Eisinger D.S., Chinkin L.R., Kear T., and Damkowitch J. (2006) Status of investigations into EMFAC2007's estimates of vehicle-miles of travel (VMT) and vehicle fleet population estimates for the South Coast Air Basin (SoCAB). Technical memorandum prepared for the South Coast Air Quality Management District, Diamond Bar, CA, Sonoma Technology, Inc., Petaluma, CA, and Dowling Associates, Sacramento, CA, STI-906065-3105-TM, December.
- Reid S.B., Penfold B.M., and Chinkin L.R. (2006) Emission inventory for the Central California Ozone Study (CCOS) - review of spatial variations of area, non-road mobile, and point sources of emissions. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906036-3057-TM, November.
- Sullivan D.C., Reid S.B., and Chinkin L.R. (2006) Emission inventory for the Central California Ozone Study (CCOS) - review of temporal profiles for area, non-road mobile, and point sources of emissions. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-906036-3058-TM, October.
- Chinkin L.R. and Wheeler N.J.M. (2006) Quality assurance project plan for ozone modeling analysis. Prepared for the City of Albuquerque Air Quality Division, Albuquerque, NM, by Sonoma Technology, Inc., Petaluma, CA, STI-906041.01-3030-QAPP, September.
- Chinkin L.R. and Wheeler N.J.M. (2006) Air quality modeling and analysis of additional emission controls on Tennessee Valley Authority coal-fired power plants (State of North Carolina ex rel. Roy Cooper, Attorney General v. Tennessee Valley Authority, Civil Action No. 1:06CV20, [W.D.N.C.]). Expert report prepared for North Carolina Department of Justice, Raleigh, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905053-3025-ER, August.
- Chinkin L.R., Wheeler N.J.M., and Miller D.S. (2006) Final validation of Central California Ozone Study (CCOS) field data. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, Fresno, CA, and the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905003.07-2851-FR2, March.
- Chinkin L.R. (2005) Air quality site selection. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905044.02-2866-TM2, December.
- Chinkin L.R. (2005) CCOS Task 3 - comparison of ambient measurements to emissions representations for modeling. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905044.03-2860-TM2, December.

- McCarthy M.C., Eisinger D.S., Hafner H.R., Tamura T.M., Chinkin L.R., Roberts P.T., Clark N., McMurry P.H., and Winer A. (2005) Strategic plan for particulate matter research: 2005-2010. Final report prepared for the Federal Highway Administration, Office of Natural Environment, Washington, DC, by Sonoma Technology, Inc., Petaluma, CA; West Virginia University, Department of Mechanical and Aerospace Engineering, Morgantown, WV; University of Minnesota, Particle Technology Lab, Minneapolis, MN; and University of California, Los Angeles, School of Public Health, Environmental Science & Engineering, Los Angeles, CA, STI-904750.06-2770-FR, November.
- Chinkin L.R., Penfold B.M., Brown S.G., and Hafner H.R. (2005) Emission inventory evaluation and reconciliation in the South Coast Air Basin. Final report prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-904045-2728-FR, August.
- Miller D.S. and Chinkin L.R. (2005) Revised summary of data missing in the CCOS subset of the CCAQS database. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-905003-2749-TM2, August.
- Raffuse S.M. and Chinkin L.R. (2005) Emission inventory reconciliation in the CRPAQS study area. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-902327-2751-FR, July.
- Mid-America Regional Council (2005) A clean air action plan for the Kansas City region. Report prepared by Lyle R. Chinkin, Neil J.M. Wheeler, Todd Tamura, and Douglas S. Eisinger at Sonoma Technology, Inc., Petaluma, CA, and others, 901470.04-2936, May.
- Bahm K.E., Sullivan D.C., Chinkin L.R., and Broaders K.E. (2004) Detecting source activities and reconciling ambient measurement variations with field observations. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-902328-2579-TM, July.
- Coe D.L., Reid S.B., Stiefer P.S., Penfold B.M., Funk T.H., and Chinkin L.R. (2004) Collection and analysis of weekend/weekday emissions activity data in the South Coast Air Basin. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-901140/901150-2477-FR; ARB Contract Nos. 00-305 and 00-313, May.
- Chinkin L.R., Tamura T.M., Eisinger D.S., Gorin C.A., Miller D.S., Coe D.L., MacDonald C.P., and Wheeler N.J.M. (2003) Preliminary assessment of ozone and PM air quality issues in Central Ohio. Final report prepared for Mid-Ohio Regional Planning Commission, Columbus, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-902900-2377-FR, June.
- Chinkin L.R., Ryan P.A., and Coe D.L. (2003) Recommended improvements to the CMU Ammonia Emission Inventory Model for use by LADCO. Revised final report prepared for Lake Michigan Air Directors Consortium (LADCO), Des Plaines, IL, by Sonoma Technology, Inc., Petaluma, CA, STI-902350-2249-FR2, March.
- Funk T.H., Chinkin L.R., Ryan P.A., and Penfold B.M. (2003) Top-down evaluation of urban area and mobile source SO₂, CO, and NO_x emission estimates in the 1996 National Emission Inventory. Final report prepared for EPRI, Palo Alto, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-902190-2279-FR, March.

- Coe D.L., Gorin C.A., Chinkin L.R., Yocke M., and Scalfano D. (2003) Emission inventories of OCS production and development activities in the Gulf of Mexico. Final report prepared for Minerals Management Service, New Orleans, LA by Sonoma Technology, Inc., Petaluma, CA, ENVIRON International, Inc., Novato, CA, and Northlake Engineers and Surveyors, Inc., Mandeville, LA, STI-998203-2229-FR2, February.
- Chinkin L., Crews J.M., MacDonald C.P., Funk T.H., Wheeler N.J.M., and Dye T.S. (2002) Preliminary assessment of ozone air quality issues in the Minneapolis/St. Paul region. Report prepared for the Minnesota Pollution Control Agency, St. Paul, MN, by Sonoma Technology, Inc., Petaluma, CA, 901104/901105-2239-RFR2, October.
- Chinkin L.R. and Coe D.L. (2002) Ground truth verification of emissions in the Houston ship channel area. Prepared for the Texas Natural Resources Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-900650-2161-RFR, August.
- Chinkin L.R., Main H.H., and Roberts P.T. (2002) Weekday/weekend ozone observations in the South Coast Air Basin volume III: analysis of summer 2000 field measurements and supporting data. Final report prepared for National Renewable Energy Laboratory, Golden, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-999670-2124-FR, April.
- Chinkin L.R., Funk T.H., and Wheeler N.J.M. (2001) Emission inventory processing issues. Technical memorandum prepared for the Utah Department of Air Quality, Salt Lake City, UT, by Sonoma Technology, Inc., Petaluma, CA, STI-900031-2129-TM, November.
- Chinkin L.R., Gorin C.A., and Funk T.H. (2001) Revised temporal allocation factors for area and off-road emissions sources. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900201-2120-TM, September.
- Funk T.H., Stiefer P.S., and Chinkin L.R. (2001) Development of gridded spatial allocation factors for the State of California. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900201/999542-2092-TM, July.
- Coe D.L., Chinkin L.R., and Prouty J.D. (2001) Exploration and Production Emission Calculator II (EPEC II). User's guide and software prepared for the American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Petaluma, CA, STI-901030-1910-UG3, June.
- Roberts P.T., Funk T.H., MacDonald C.P., Main H.H., and Chinkin L.R. (2001) Weekday/weekend ozone observations in the South Coast Air Basin: retrospective analysis of ambient and emissions data and refinement of study hypotheses. Report prepared for the National Renewable Energy Laboratory, Golden, CO, by Sonoma Technology, Inc., Petaluma, CA, STI-999670-1961-FR, January.
- Funk T.H. and Chinkin L.R. (2001) Spatial allocation factors for area and non-road mobile sources. Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-900201/999543-2049-TM, January.
- Coe D.L., Ladner D.J., Prouty J.D., Chinkin L.R., Yocke M., and Scalfano D. (2000) User's guide for the Breton Offshore Activities Data System (BOADS) for Air Quality. User's guide and software prepared for Minerals Management Service, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, ENVIRON International, Inc., Novato, CA, and Northlake Engineers and Surveyors, Inc., Mandeville, LA, OCS Study, MMS 2000-2001 (STI-998202-1867-UG3) December.

- Fujita E.M., Stockwell W., Keislar R.E., Campbell D.E., Roberts P.T., Funk T.H., MacDonald C.P., Main H.H., and Chinkin L.R. (2000) Weekend/weekday ozone observations in the South Coast Air Basin: retrospective analysis of ambient and emissions data and refinement of hypotheses, Volume I - Executive Summary. Prepared for National Renewable Energy Laboratory, Golden, CO, by Desert Research Institute, Reno, NV, and Sonoma Technology, Inc., Petaluma, CA, December.
- Chinkin L.R., Funk T.H., Main H.H., and Roberts P.T. (2000) PAMS data analysis for southern California. Volume VI: Use of PAMS data to evaluate a South Coast Air Basin emission inventory. Report prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997528-1916-FR, November.
- Coe D.L., Chinkin L.R., and Ryan P.A. (2000) Identification of selected agricultural practices that reduce PM₁₀ emissions within the San Joaquin Valley. Report prepared for San Joaquin Valley Unified Air Pollution Control District, Fresno, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999681-1978-FR, August.
- Funk T.H. and Chinkin L.R. (2000) Technical memorandum: evaluation of Atlanta emission inventory using the EMS-95 PAMS analysis tool developed by LADCO. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Petaluma, CA, STI-999443-1989-FR, June.
- Coe D.L., Ryan P.A., and Chinkin L.R. (2000) Data Analysis for the SJVUAPCD: Identification of selected agricultural practices that reduce PM₁₀ emissions within the San Joaquin Valley. Technical memorandum prepared for the San Joaquin Valley Unified Air Pollution Control District, Fresno, CA, by Sonoma Technology, Inc, Petaluma, CA, STI-999681-1978-TM, May.
- Coe D.L., Chinkin L.R., Ryan P.A., and Garver P. (2000) Conceptual model of important sources of particulate matter in the Salt Lake City region. Scoping study prepared for the State of Utah Department of Environmental Quality, Salt Lake City, UT, by Sonoma Technology, Inc., Petaluma, CA, STI-900031-1965-DSS2, April.
- Coe D.L., Chinkin L.R., Funk T.H., Prouty J.D., and Ray S.E. (2000) Work plan for the California Regional PM₁₀/PM_{2.5} Air Quality Study: development of emissions activity data in support of CRPAQS annual and episodic field studies. Draft work plan prepared for the San Joaquin Valleywide Air Pollution Study Agency c/o California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-999540-1955-DWP, March.
- Roberts P.T., Alcorn S.H., Anderson C.B., Funk T.H., Chinkin L.R., and Main H.H. (2000) Northeast Gulf of Mexico ozone scoping study. Report prepared for Louisiana Mid-Continent Oil and Gas Association, Baton Rouge, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-999400-1930-FR, February.
- Lurmann F.W., Hall J.V., Kleinman M., Chinkin L.R., Brajer V., Meacher D., Mummery F., Arndt R.L., Funk T.H., Alcorn S.H., and Kumar N. (1999) Assessment of the health benefits of improving air quality in Houston, TX. Prepared for the City of Houston, TX, by Sonoma Technology, Inc., Petaluma, CA, California State University, Fullerton, CA, and University of California, Irvine, CA, STI-998460-1875-FR, November.
- Coe D.L., Main H.H., and Chinkin L.R. (1999) A review of current emission estimating techniques for petroleum refinery cooling towers and flares. Report prepared for the American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Petaluma, CA, STI-998540-1895-FR2, October.

- Main H.H., Chinkin L.R., Chamberlin A.H., and Hyslop N.M. (1999) PAMS data analysis for southern California. Volume I: characteristics of hydrocarbon data collected in the South Coast Air Quality Management District from 1994 to 1997. Report prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997521-1899-DFR, September.
- Richards L.W., Eisinger D.S., Fujita E., Chinkin L.R., Higgins T., Pierson W., and Rogers F. (1999) The Urban Brown Cloud in Maricopa County: description and potential control measures. Revised first draft final report prepared for Maricopa Association of Governments, Phoenix, AZ, by Sonoma Technology, Inc., Petaluma, CA, STI-996346-1900-RDFR1, September.
- Alcorn S.H., Arndt R.L., and Chinkin L.R. (1999) Hysplit interactive and batchmode user's guide. Prepared for Texas Natural Resource Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-999170-1904, August.
- Haste T.L. and Chinkin L.R. (1999) Analysis of PAMS data in California Volume II: the use of PAMS data to evaluate regional emission inventories in California. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998392-1884-FR, May.
- MacDonald C.P., Chinkin L.R., Dye T.S., and Anderson C.B. (1999) Analysis of PAMS data in California volume I: the use of PAMS radar profiler and RASS data to understand the meteorological processes that influence air quality in selected regions of California. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-998391-1888-FR, May.
- Chinkin L.R., Main H.H., Anderson C.B., Coe D.L., Haste T.L., Hurwitt S., and Kumar N. (1999) Study of air quality conditions including ozone formation, emission inventory evaluation, and mitigation measures for Crittenden County, Arkansas. Report prepared for the Arkansas Department of Pollution Control and Ecology, Little Rock, AR, by Sonoma Technology, Inc., Petaluma, CA, STI-998310-1837-FR, March.
- Chinkin L.R., Main H.H., Hurwitt S., Haste T.L., Coe D.L., and Kumar N. (1998) A study of air quality conditions including emissions inventory, ozone formation, PM₁₀ generation, and mitigation measures for Mendocino County, California. Report prepared for the Mendocino County Air Quality Management District, Ukiah, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-998080-1816-FR, November.
- MacDonald C.P., Roberts P.T., Main H.H., Kumar N., Haste T.L., Chinkin L.R., and Lurmann F.W. (1998) Analysis of meteorological and air quality data for North Carolina in support of modeling. Report prepared for North Carolina Department of Environment and Natural Resources, Division of Air Quality, Raleigh, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-997420-1818-DFR, October.
- Haste T.L., Kumar N., Chinkin L.R., and Roberts P.T. (1998) Compilation and evaluation of a gridded emission inventory for the Paso del Norte area. Report prepared for the U.S. Environmental Protection Agency, Air Quality Analysis Section, Dallas, TX, by Sonoma Technology, Inc., Petaluma, CA, STI-998110-1828-FR, September.
- Coe D.L. and Chinkin L.R. (1998) Emission source activity detection: analysis of CMB model results and daily activity data for IMS95. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, c/o the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997212-1775-FR, July.

- Dye T.S., Kwiatkowski J.J., MacDonald C.P., Ray S.E., Chinkin L.R., and Lindsey C.G. (1998) Measurement methods validation: adequacy and validation of meteorological measurements aloft during IMS95. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997218-1766-FR, July.
- Haste T.L., Chinkin L.R., Kumar N., Lurmann F.W., and Hurwitt S.B. (1998) Use of ambient data collected during IMS95 to evaluate a regional emission inventory for the San Joaquin Valley. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, c/o the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997211-1800-FR, July.
- Main H.H., Richards L.W., Hurwitt S.B., and Chinkin L.R. (1998) Characterization of the spatial and temporal patterns of visibility in the San Joaquin Valley during IMS95. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, c/o the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997217-1778-FR, July.
- Richards L.W., Hurwitt S.B., Main H.H., and Chinkin L.R. (1998) Characterization of the validity of light-scattering measurements during the 1995 Integrated Monitoring Study. Report prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-997216-1796-FR, July.
- Smith A., Richards L.W., Roberts P.T., Chinkin L.R., Kumar N., Stoeckenius T., Gray H.A., and Emery C. (1998) Assessment of the impacts of clean air act and other provisions on visibility in class I areas, Richards L.W., ed. Report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Petaluma, CA, STI-997530-1792-FR2, July.
- Chinkin L.R., Coe D.L., Capuano M., Scalfano D., and Yocke M. (1998) Emission inventories of OCS production and development activities in the Gulf of Mexico. Report prepared for the Minerals Management Service, New Orleans, LA, by Sonoma Technology, Inc., Petaluma, CA, STI-998201-1817-DWP, June.
- Main H.H., Chinkin L.R., and Roberts P.T. (1998) PAMS data analysis workshops: illustrating the use of PAMS data to support ozone control programs. Web page prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA. Available on the Internet at <<http://www.epa.gov/oar/oaqps/pams/analysis>> STI-997280-1824, June.
- Rocke D.M., Chang D.P.Y., Dai J., Mayo C., Di P., Montano R., Chinkin L.R., and Main H.H. (1998) Temporal, spatial, and ambient temperature effects in the Sacramento modeling region. Final report prepared for the California Air Resources Board, Sacramento, CA, and the California Environmental Protection Agency, May.
- Main H.H. and Chinkin L.R. (1998) Example photochemical assessment monitoring station (PAMS) data analysis for Ventura County. Final report prepared for Ventura County Air Pollution Control District, Ventura, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997450-1795-FR, March.
- Haste T.L., Chinkin L.R., Main H.H., Kumar N., and Roberts P.T. (1998) Use of PAMS data to evaluate a regional emission inventory in the northeastern United States. Final report prepared for Coordinating Research Council, Atlanta, GA, under subcontract to ENVIRON International Corporation, Novato, CA by Sonoma Technology, Inc., Santa Rosa, CA, STI-95424-1737-FR, March.
- Roberts P.T., Main H.H., Dye T.S., Lurmann F.W., Chinkin L.R., Stoeckenius T., and Fujita E. (1998) Photochemical assessment monitoring stations (PAMS) data analysis for southern California: work plan. Work plan prepared for South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997520-1799-WP, March.

- Ryan P.A., Coe D.L., and Chinkin L.R. (1998) Correlation equations to predict Reid vapor pressure and properties of gaseous emissions for exploration and production facilities. Report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Petaluma, CA, STI-997340-1798-FR, March.
- Blumenthal D.L., Kumar N., Chinkin L.R., Dye T.S., Roberts P.T., and Lurmann F.W. (1998) Nitrogen oxides transport from La Cygne Station, KS: a study for assessing its influence on urban ozone. Final report prepared for La Cygne Study Steering Committee by Sonoma Technology, Inc., Petaluma, CA, STI-997380-1762-FR, February.
- Chinkin L.R., Haste T.L., Coe D.L., Puri A.K., Hall J.V., and Levy S. (1998) Emission inventory projection project. Final report prepared for the American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996250-1745-FR, February.
- Coe D.L., Chinkin L.R., Loomis C., Wilkinson J., Zwicker J., Fitz D., Pankratz D., and Ringler E. (1998) Technical support study 15: evaluation and improvement of methods for determining ammonia emissions in the San Joaquin Valley. Report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI95310-1759-FR, January.
- Dye T.S., Ray S.E., MacDonald C.P., Kwiatkowski J.J., Hurwitt S., and Chinkin L.R. (1997) Summary of ozone forecasting for the air districts of Sacramento, Yolo-Solano, and Placer for the 1997 season. Final report prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997122-1768-FR, December.
- Blumenthal D.L., Roberts P.T., Chinkin L.R., Dye T.S., and Kwiatkowski J.J. (1997) An ozone scoping study for the Kansas City area. Prepared for consideration by The NO_x Steering Committee, Environment Group, Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997380-1742WP-1.1, September.
- MacDonald C.P., Dye T.S., and Chinkin L.R. (1997) Forecasting guidelines for winds and ozone air quality in the Sacramento Region. Technical memorandum prepared for the Sacramento Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997121-1734-TM, June.
- Main H.H. and Chinkin L.R. (1997) Analysis of aloft ozone, ozone precursors, and exotic species in the mid-Sacramento Valley on September 7, 1995. Report prepared for Sacramento Valley Basin Wide Air Pollution Control Council, Woodland, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95350-1730-FR, June.
- Main H.H., Roberts P.T., and Chinkin L.R. (1997) PAMS data analysis workshop: illustrating the use of PAMS data to support ozone control programs. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, presented at California Air Resources Board and EPA Region IX, Sacramento, CA, STI-997100-1719-WD7, May.
- Chinkin L.R., Eisinger D.S., and Richards L.W. (1997) MAG Brown Cloud Study: significant sources and source parameters for Maricopa County brown clouds. Draft Working Paper No. 3 prepared for Maricopa Association of Governments, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, TI-996344-1721-DWP3, April.
- Main H.H., Roberts P.T., Chinkin L.R., and Korc M.E. (1997) PAMS data analysis workshop: illustrating the use of PAMS data to support ozone control programs. Prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, presented at Camp Mabry for Texas Natural Resources Conservation Commission, Austin, TX, by Sonoma Technology, Inc., Santa Rosa, CA, STI-997160-1704-WD6, April.

- Reiss R., Chinkin L.R., and Eisinger D.S. (1997) A primer on ozone monitoring site selection. Final report prepared for SAIC, Durham, NC and U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996330-1712-FR, April.
- Coe D.L., Chinkin L.R., and Prouty J.D. (1997) Exploration and production emission calculator (EPEC). Version 1.1. User's guide prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996160-1700-1.1-UG, September.
- Main H.H., Chinkin L.R., Haste T.L., Roberts P.T., and Reiss R. (1997) Shasta County Ozone and Ozone Precursor Transport Quantification Study. Final report prepared for Shasta County Department of Resource Management, Redding, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95180-1714-FR, March.
- Puri A., Hall J., Levy S., Coe D.L., and Chinkin L.R. (1997) API emission inventory projection project. Task 2: description and evaluation of economic growth projection methods. Technical memorandum prepared for American Petroleum Institute, Washington, DC, by Institute for Economic and Environmental Studies, California State University, Fullerton, CA, Center for Continuing Study of California Economy, Palo Alto, CA, and Sonoma Technology, Inc., Santa Rosa, CA, STI-996250-1711-TM, February.
- Coe D.L. and Chinkin L.R. (1996) IMS95 daily activity surveys. Final report prepared for the San Joaquin Valleywide Air Pollution Study Agency, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95274-1616-FR, Contract No. 95-10 PM, December.
- Dye T.S., Ray S.E., Lindsey C.G., Arthur M., and Chinkin L.R. (1996) Summary of ozone forecasting and equation development for the air districts of Sacramento, Yolo-Solano, and Placer. Vol. I: ozone forecasting. Vol. II: equation development. Final report prepared for Sacramento Metropolitan Air Quality Management District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996210-1701-FR, December.
- Chinkin L.R., Reiss R., and Eisinger D.S. (1996) Ozone exceedance data analysis: representativeness of 1995. Phase II. Final report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996032-1586-FR, October.
- Chinkin L.R., Reiss R., Eisinger D.S., Dye T.S., and Jones C.M. (1996) Ozone exceedance data analysis: representativeness of 1995. Phase I. Final report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996031-1574-FR, August.
- Chinkin L.R., Reiss R., Haste T.L., Ryan P.A., Stoelting M.W., Karlik J., and Winer A. (1996) Development of a gridded leaf biomass inventory for use in estimating biogenic emissions for urban airshed modeling. Final report prepared for Ventura County Air Pollution Control District by Sonoma Technology, Inc., Santa Rosa, CA, and School of Public Health, University of California, Los Angeles, CA, STI-996086-1599-FR, August.
- Reiss R., Chinkin L.R., Coe D.L., and DiSogra C. (1996) Emission inventory of agricultural internal combustion engines used for irrigation in the SJVUAPCD. Final report prepared for San Joaquin Valley Air Pollution Control District, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, and Freeman, Sullivan & Co., San Francisco, CA, STI-95240-1569-FR, August.
- Chinkin L.R., Ryan P.A., Reiss R., Jones C.M., Winer A., and Karlik J. (1996) Improvements to the biogenic emission estimation process for Maricopa County. Final report prepared for Maricopa Association of Governments, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, and School of Public Health, University of California, Los Angeles, CA, STI-95160-1577-FR, July.
- Chinkin L.R., Main H.H., Jones C.M., and Eisinger D.S. (1996) Ozone ambient monitoring network review for Polk County, Iowa. Final report prepared for Polk County Public Works APCD, Des Moines, IA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996050-1584-FR, June.

- Chinkin L.R. (1996) A workplan for Ventura County leaf biomass inventory project. Prepared for Ventura County Air Pollution Control District, Ventura, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-996080-1583-WP, May.
- Schoell B.M., Anderson J.A., Chinkin L.R., and Roberts P.T. (1996) Data collected by the STI aircraft during the 1995 Shasta County ozone study. Data volume prepared for Shasta County Department of Resource Management, Redding, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95350-1575-DVS, April.
- Schoell B.M., Anderson J.A., Chinkin L.R., and Roberts P.T. (1996) Data collected by the STI aircraft during the 1995 Shasta County ozone study. Data volume prepared for Shasta County Department of Resource Management, Redding, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95180-1568-DV, March.
- Chinkin L.R., Main H.H., and Coe D.L. (1996) Evaluation and improvement of methods for determining ammonia emissions in the San Joaquin Valley. Technical support study 15. Final workplan prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95310-1560-FWP, March.
- Coe D.L., Eisinger D.S., Chinkin L.R., Heiken J.G., Austin B.S., and Pollack A.K. (1996) Methodology for gathering locality-specific emission inventory data. Final report prepared for U.S. Environmental Protection Agency, Office of Mobile Sources, Ann Arbor, MI, by Sonoma Technology, Inc., Santa Rosa, CA and ENVIRON Corporation, Novato, CA, June.
- Coe D.L., Main H.H., Chinkin L.R., Loomis C., and Wilkinson J. (1996) Review of current methodologies for estimating ammonia emissions. Draft final report prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-95310-1580-DFR, May.
- Chinkin L.R., Ryan P.A., Reiss R., Jones C.M., Winer A., and Karlik J. (1996) Implementation of improvements to the biogenic emission estimation process for Maricopa County. Working Paper No. 3 prepared for Maricopa Association of Governments, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, and School of Public Health, University of California, Los Angeles, CA, STI-95160-1559-WP3, February.
- Korc M.E., Jones C.M., Chinkin L.R., Main H.H., Roberts P.T., and Blanchard C. (1995) Use of PAMS data to evaluate the Texas COAST emission inventory. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, Work assignment 2-95, EPA Contract No. 68D30020, STI-94520-1558-FR, December.
- Heiken J.G., Austin B.S., Pollack A.K., Coe D.L., Eisinger D.S., and Chinkin L. (1995) Methodology for gathering locality-specific emission inventory data. Draft report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Heiken, J.G., Austin, B.S., Pollack, A.K. (Consultants) and Sonoma Technology, Inc., Santa Rosa, CA, EPA Contract No. 68D30020, Work Assignment 9-95, December.
- Reiss R., Chinkin L.R., Roberts P.T., Main H.H., and Eisinger D.S. (1995) Investigation of monitoring networks for an alternative ozone NAAQS. Work assignment 7-95. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, EPA Contract No. 68D30020, STI-94571-1553-FR, December.
- Richards L.W., Kumar N., Musarra S.P., Chinkin L.R., Scire J.S., Insley E.M., Chang C., and Strimaitis D.G. (1995) User's guide for the CD-ROM for the CALMET, CALPUFF, and CALPOST modeling system. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA and EARTH TECH, Concord, MA, STI-94051-1453-UGR3, December.

- Winer A.M., Chinkin L., Arey J., Atkinson R., Adams J., and Karlik J. (1995) Critical evaluation of a biogenic emission system for photochemical grid modeling in California. Final report prepared for California Air Resources Board, Sacramento, CA, by School of Public Health, University of California, Los Angeles, CA, Sonoma Technology, Inc., Santa Rosa, CA, and Statewide Air Pollution Research Center, University of California, Riverside, CA, ARB Contract No. 93-725, December.
- Reiss R., Chinkin L.R., and Main H.H. (1995) Ozone NAAQS review--ambient air monitoring support target strategy. Work assignment 1-95. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, EPA Contract No. 68D30020, STI-94510-1535-FR, September.
- Chinkin L.R., Ryan P.A., Reiss R., and Winer A. (1995) Biogenic emission inventory improvement study. Working paper no. 1: review of modeling procedures for biogenic emissions. Report prepared for Maricopa Association of Governments, Phoenix, AZ, by Sonoma Technology, Inc., Santa Rosa, CA, and School of Public Health, University of California, Los Angeles, CA, STI-95160-1524-WP1R2, August.
- Watson J.G., Chow J.C., Cahill C.F., Cal M., Divita Jr. F., Freeman D., Gillies J.A., Blumenthal D., Richards L.W., Chinkin L., Lindsey C., Prouty J., Dietrich D., Cobb D., Houck J., Dickson R.J., and Andersen S. (1995) Mt. Zirkel Wilderness Area reasonable attribution study of visibility impairment. Technical reasonable attribution study plan. Working draft version 2.0. Prepared for Technical Steering Committee, c/o Colorado Department of Public Health and Environment, Air Pollution Control Division, Denver, CO, by Desert Research Institute, Reno, NV, Sonoma Technology, Inc., Santa Rosa, CA, Air Resource Specialists, Inc., Fort Collins, CO, Applied Geotechnology Inc., Portland, OR, Radian Corporation, Sacramento, CA, and SECOR International Inc., Fort Collins, CO, August.
- Chinkin L.R. and Main H.H. (1995) The investigation of monitoring networks for an alternative ozone NAAQS. Work assignment 7-95. Work plan prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, EPA Contract No. 68D30020, STI-94570-1525-WP, June.
- Main H.H., Chinkin L.R., and Roberts P.T. (1995) Analysis of PAMS and NARSTO-Northeast ambient air quality data. Work assignment 5-95. Data analysis plan prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, EPA Contract No. 68D30020, STI-94550-1526-DA, June.
- Chinkin L.R., Roberts P.T., Korc M.E., Main H.H., and Linn W.S. (1995) Analysis of the impact of potential alternative PM₁₀ NAAQS on areas with petroleum industry operations. Final report prepared for American Petroleum Institute, Washington, DC, by Sonoma Technology, Inc., Santa Rosa, CA, and Los Amigos Research and Education Institute, University of Southern California, Downey, CA, STI-93490-1442-FR, April.
- Main H.H., Richards L.W., Chinkin L.R., Evans V.A., Chow J.C., and Divita F. (1995) PM₁₀ chemical analysis and source receptor modeling study for the Seattle-Tacoma area. Final report prepared for Puget Sound Air Pollution Control Agency, Seattle, WA, by Sonoma Technology, Inc., Santa Rosa, CA, RMI, Novato, CA, and Desert Research Institute, Reno, NV, STI-93140-1444-FR, April.
- Chinkin L.R., Jones C.M., and Roberts P.T. (1995) Analysis of air quality, emission trends, and meteorology in the Puget Sound and Vancouver areas of Washington. Final report prepared for Department of Ecology, Olympia, WA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94480-1505-FR, January.

- Blanchard C.L., Roberts P.T., Chinkin L.R., and Roth P.M. (1994) Application of smog production (SP) algorithms to the Coastal Oxidant Assessment for Southeast Texas (COAST) data. Final report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Envair, Albany, CA, and Sonoma Technology, Inc., Santa Rosa, CA, STI-94080-1454-FR, Work Assignment 8-94, EPA Contract No. 68D30020, December.
- Richards L.W., Main H.H., Chinkin L.R., and Collins J.F. (1994) Characteristics of the SCE long-term and high-density network precipitation chemistry database. Final report prepared for Southern California Edison, Rosemead, CA, by Sonoma Technology, Inc., Santa Rosa, CA, and Collins Consulting and Computing, Somis, CA, STI-94460-1447-FR, December.
- Chinkin L., Blumenthal D., Jones C., Thompson J., and Weinstein E. (1994) Data archiving plan for the 1994 Northeast Air Quality Study (NEAQS '94). Working draft V1.2 prepared for Electric Power Research Institute, Palo Alto, CA, by Sonoma Technology, Inc., Santa Rosa, CA, and Electric Power Research Institute, Palo Alto, CA, STI-94361-1425-WD1.2, RP9072, October.
- Chinkin L.R., Korc M.E., Main H.H., Roberts P.T., and Dye T.S. (1994) Scoping study report for the Wasatch Front Ozone Study. Report prepared for Utah Division of Air Quality, Salt Lake City, UT, by Sonoma Technology, Inc., Santa Rosa, CA, STI-94411-1430, September.
- Chinkin L., Ryan P., Korc M., Strimaitis D., Moore G., and Scire J. (1994) Development of an approach for modeling dry deposition of toxic gases. Final report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, and Earth Tech, Concord, MA, STI-94011-1437-FR, September.
- Main H.H., Chinkin L.R., Schoell B.M., Roberts P.T., and Lurmann F.W. (1994) Quality assurance plan for microenvironmental ozone measurements in schools as part of the epidemiologic investigation to identify chronic health effects of air pollutants. Version No. 02 prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92372-1424-SOP, August.
- Roberts P.T., Chinkin L.R., Prins E.M., and Main H.H. (1994) 1990 Sacramento Area Ozone Study: data analysis summary and guide to the data base. Final report prepared for Systems Applications International, San Rafael, CA, and Sacramento Area Council of Governments, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90048-1353-FR2, May.
- Stoeckenius T.E., Roberts P.T., and Chinkin L.R. (1994) Development of an objective classification procedure for Bay Area air flow types representing ozone-related source-receptor relationships. Report prepared for California Air Resources Board and California Environmental Protection Agency, Sacramento, CA, by Systems Applications International, San Rafael, CA and Sonoma Technology, Inc., Santa Rosa, CA, SYSAPP94-94/022, May.
- Main H.H., Chinkin L.R., and J.F. Collins (1994) Long-term trends in the SCE precipitation chemistry data base for southern California. Final report prepared for Southern California Edison, Rosemead, CA, by Sonoma Technology, Inc., Santa Rosa, CA, and Collins Consulting and Computing, Camarillo, CA, STI-92270-1368-FR, SCE P.O. C3082907, April.
- Korc M.E. and Chinkin L.R. (1993) Improvement of the speciation profiles used in the development of the 1991 LMOS emission inventory. Draft final report prepared for the Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-92324-1394-DFR, December.

- Main H.H., Chinkin L.R., and Strimaitis D. (1993) Evaluation of methods for simulating ambient impacts of area-wide sources of air toxics. Report prepared for U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, and Sigma Research Corporation, Concord, MA, STI-93241-1391-DFR, December.
- Korc M.E., Roberts P.T., Chinkin L.R., and Main H.H. (1993) Comparison of emission inventory and ambient concentration ratios of CO, NMOC, and NO_x in the Lake Michigan Air Quality Region. Draft final report prepared for Lake Michigan Air Directors Consortium, Des Plaines, IL, by Sonoma Technology, Inc., Santa Rosa, CA, STI-90218-1357-DFR, October.
- Main H.H., Chinkin L.R., Roberts P.T., and Hanna S.R. (1993) Modeling-based comparison and data analysis of open path analyzers versus fixed point analyzers. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Santa Rosa, CA, STI-93251-1389-TM, November.
- Reynolds S.D., Tesche T.W., Dye T., Roberts P., Franzon D.E., Chinkin L.R., and Reid S.B. (1993) Assessment of planned northeast ozone transport region modeling activities. Report prepared by the American Petroleum Institute, Health and Environmental Sciences Department, Washington, DC, API No. 4563, July.
- Roberts P.T., Main H.H., Chinkin L.R., Musarra S.F., and Stoeckenius T. (1993) Methods development for quantification of ozone and ozone precursor transport in California. Final report prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, and Systems Applications International, San Rafael, CA, STI-90100-1233-FR, ARB Contract No. A932-143, July.
- Sullivan M., DiSogra C., Chinkin L.R., and Jackson B. (1992) Determination of usage patterns and emissions for propane/LPG in California. Final report prepared for the California Air Resources Board, Sacramento, CA, and the South Coast Air Quality Management District, Diamond Bar, CA, by Freeman, Sullivan & Co. and Systems Applications International, San Rafael, CA, Contract No. A032-092.
- Gray A., Reid S., and Chinkin L.R. (1992) Carbon particle emissions inventory for Denver Brown Cloud II: development and assessment. Report prepared by Systems Applications International, San Rafael, CA, SYSAPP-92/xxx.
- Stoeckenius T. and Chinkin L.R. (1992) A field data-based analysis of the effect of nitrogen oxide and hydrocarbon emission reductions on ozone in the South Coast Air Basin. Final report prepared by Systems Applications International, San Rafael, CA, SYSAPP-92/007.
- Burton C.S., Smylie M., and Chinkin L.R. (1991) 1991 environmental regulation course: the Clean Air Act Amendments of 1990. Report prepared by Systems Applications International, San Rafael, CA.
- Eisinger D. and Chinkin L.R. (1991) San Francisco 1990 regional transportation plan: air quality environmental impact report. Draft report prepared by Systems Applications International, San Rafael, CA, SYSAPP-91/048.
- Eisinger D., Smylie M., and Chinkin L.R. (1991) A regulatory analysis of the Clean Air Act Amendments of 1990, the California Clean Air Act of 1988, and the South Coast Air Quality Management Plan. Report prepared by Systems Applications International, San Rafael, CA.
- Gardner L., Chinkin L.R., and Heiken J.G. (1991) Procedures for the preparation of emission inventories for carbon monoxide and precursors of ozone, vol. II: emission inventory requirements for photochemical air quality simulation models. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, EPA-450/4-91-014.

- Knight R., Akers L., Austin B., Eisinger D.S., Fieber J., Goetz J.K., Chinkin L., and Hamilton W. (1991) Assessment of the emissions impacts of electric vehicles in the South Coast Air Basin. Report prepared for California Air Resources Board, Sacramento, CA, Southern California Edison Company, Rosemead, CA, and Bevilacqua-Knight Incorporated, Oakland, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-90/108.
- Watson J.G., Chow J.C., Richards L.W., Haase D.L., McDade C., Dietrich D.L., Moon D., Chinkin L., and Sloane C. (1990) The 1989-90 Phoenix Urban Haze Study. Volume I: program plan. Report prepared for Arizona Department of Environmental Quality, Phoenix, AZ, by Desert Research Institute, Reno, NV, DRI Document No. 8931.1F, January.
- Watson J.G., Chow J.C., Richards L.W., Haase D.L., McDade C., Dietrich D.L., Moon D., Chinkin L., and Sloane C. (1990) The 1989-90 Pilot Tucson Urban Haze Study. Volume I: program plan. Report prepared for Arizona Department of Environmental Quality, Phoenix, AZ, by Desert Research Institute, Reno, NV, DRI Document No. 8931.3F, January.
- Watson J.G., Chow J.C., Richards L.W., Haase D.L., McDade C., Dietrich D.L., Moon D., Chinkin L., and Sloane C. (1990) The 1989-90 Pilot Tucson PM10 Study. Volume I: program plan. Report prepared for Arizona Department of Environmental Quality, Phoenix, AZ, by Desert Research Institute, Reno, NV, DRI Document No. 8931.4F, January.
- Watson J.G., Chow J.C., Richards L.W., Haase D.L., McDade C., Dietrich D.L., Moon D., Chinkin L., and Sloane C. (1990) The 1989-90 Phoenix PM10 Study. Volume I: program plan. Final report prepared for Arizona Department of Environmental Quality, Phoenix, AZ, by Desert Research Institute, Reno, NV, DRI Document No. 8931.2F.
- Chinkin L.R., Garelick B., Fieber J.F., Dickson R.J., Wright D.A., and Oliver W.R. (1990) Findings of technical support study number 5 of the San Joaquin Valley Air Quality Study. Report prepared for California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-90/011.
- Morris R.E., Kessler R.C., Chinkin L.R., and Douglas S.G. (1990) Findings of technical support study number 5 of the San Joaquin Valley Air Quality Study. Report prepared for California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-90/033.
- Garelick B., Austin B., Fieber J., and Chinkin L.R. (1990) Emission changes and air quality impacts resulting from reducing the RVP and adding MTBE to Shell Gasoline (SU2000). Report by Systems Applications Inc., San Rafael, CA, SYSAPP-90/039.
- Seigneur C., Morris R., Kessler R., and Chinkin L. (1990) Conceptual modeling plan for the SJVAQS/AUSPEX project. Final report prepared for Pacific Gas & Electric Company, San Francisco, CA, by ENSR Consulting and Engineering, Glastonbury, CT, and Sonoma Technology, Inc., Santa Rosa, CA, Document No. 5256-001-000.
- Chinkin L.R., et al. (1989) Findings of technical support study number 5 of the San Joaquin Valley Air Quality Study, tasks 7-8. Report prepared for the California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-89/116.
- Chinkin L.R., et al. (1989) Technical support study number 5 of the San Joaquin Valley Air Quality Study, tasks 1-5. Report prepared for the California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-89/022.

- Haney J.L., Roberts P.T., Douglas S.G., Chinkin L.R., Souten D.R., and Burton C.S. (1989) Ozone air quality scoping study for the Lower Lake Michigan air quality region. Final report prepared for Air and Radiation Branch, U.S. Environmental Protection Agency, Research Triangle Park, NC, by Systems Applications, Inc., San Rafael, CA, and Sonoma Technology, Inc., Santa Rosa, CA, SYSAPP-89/113, September.
- Haney J.L., Chinkin L.R., and Douglas S.G. (1989) Ozone scoping study for Jefferson County-Louisville, Kentucky. Report prepared for Jefferson County Air Pollution Control District, Louisville, KY, by Systems Applications Inc., San Rafael, CA, SYSAPP-89/118.
- Haney J., Chinkin L.R., Garelick B., Hudischewskyj A., and Stoeckenius T. (1989) Review of selected portions of MMS' proposed air quality regulations for OCS sources. Report prepared for Office of Attorney General, State of California, Department of Justice, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-89/061.
- Ireson R.G. and Chinkin L.R. (1989) Detailed analysis of ozone state implementation plans in seven areas selected for retrospective evaluation of reasons for state implementation plan failure, volume II, technical report, part E: Chicago Study Area. Report prepared for American Petroleum Institute, Washington, DC, and Pacific Environmental Services, Inc. by Systems Applications Inc., San Rafael, CA, SYSAPP-89/107E.
- Ireson R.G., Roberts P.T., Eisinger D.S., Main H.H., Garelick B., and Chinkin L.R. (1989) Scoping study to develop an air quality management plan for San Luis Obispo County. Report prepared for San Luis Obispo County Air Pollution Control District, San Luis Obispo, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-89/130.
- Morris R.E. and Chinkin L.R. (1989) A low-cost application of the urban airshed model to the New York Metropolitan Area and the city of St. Louis (five cities UAM study phase I). Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Systems Applications Inc., San Rafael, CA, SYSAPP-89/070.
- Roth P.M., Blumenthal D.L., Roberts P.T., Watson J.G., Yocke M.A., Souten D.R., Ireson R.G., Chinkin L.R., Whitten G.Z., Daly C., and Smith T.B. (1988) A proposed concept and scope for the San Joaquin Valley Air Quality Study. Final report prepared for California Air Resources Board, Sacramento, CA, by Sonoma Technology, Inc., Santa Rosa, CA, STI-96050-710-FR, February.
- Chinkin L.R. and Gardner L.A. (1988) Comparison of emission inventories prepared for the JIMS and SCCAMP 1984 modeling studies. Report prepared for U.S. Department of the Interior, Minerals Management Service, New Orleans, LA, by Systems Applications Inc., San Rafael, CA.
- Chinkin L.R., Austin B.S., Pollack A.K., Moezzi M., Burton C.S., and Latimer D.A. (1988) Characterizing visibility trends: a review of historical approaches and recommendations for future analyses. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/109.
- Chinkin L.R., Gardner L.A., and Mahoney L.A. (1988) NO_x and VOC emissions trends and projections in New Jersey and the Northeastern United States. Final report prepared for the Department of Environmental Protection, State of New Jersey by Systems Applications Inc., San Rafael, CA, SYSAPP-88/116.
- Chinkin L.R., Pollack A.K., Styles K.R., Austin B.S., and Moezzi M. (1988) Characterizing visibility trends: summary of investigations and presentation of results. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/111.

- Eisinger D.S., Burton C.S., and Chinkin L.R. (1988) A concept paper to analyze the air quality effects of increased electric vehicle use. Report prepared for Electric Power Research Institute, Palo Alto, CA, by Systems Applications Inc., San Rafael, CA.
- Haney J.L., Chinkin L.R., and Fieber J.L. (1988) Air quality modeling analyses supporting the OCS negotiated rulemaking process in the South Central Coast Air Basin of California. Report prepared for the U.S. Department of the Interior, Minerals Management Service, New Orleans, LA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/015.
- Haney J.L., Dudik M.C., Gardner L.A., Chinkin L.R., and Ireson R.G. (1988) Development of urban airshed modeling capability for Truckee Meadows: carbon monoxide monitoring review and climatology. Report prepared for Washoe County Department of Comprehensive Planning by Systems Applications Inc., San Rafael, CA, SYSAPP-88/033.
- Hayes S.R., Chinkin L.R., Hayes S.R., Haney J.L., Mahoney L.A., Rosenbaum A.S., Austin B.S., Fieber J.L., and Gardner L.A. (1988) Evaluation of South Coast Air Basin alternative ozone attainment scenarios using the urban airshed model. Report prepared for the Western Oil and Gas Association, Glendale, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/195.
- Ireson R.B., Roberts P.T., Roth P.M., Chinkin L.R., Blumenthal D.L., Eisinger D.S., Gardner L., Haney J.L., Mahoney L.A., and Yocke M.A. (1988) Scoping study for data collection and urban airshed model performance evaluation in the San Diego air basin, volume I: summary and recommendations; volume II: technical assessment. Reports prepared for the San Diego County Air Pollution Control District, San Diego, CA, by Systems Applications, Inc., San Rafael, CA, SAI-SYSAPP-88/127a, b, December.
- Ireson R.G., Damon J.P., Chinkin L.R., and Wilbur D.M. (1988) Long-range monitoring and modeling program needs for air quality planning in the Tucson area. Report prepared by Parsons Brinckerhoff Quade & Douglas, Inc., AeroVironment, Inc., and Systems Applications Inc., San Rafael, CA, SYSAPP-88/090.
- Ireson R.G., Eisinger D.S., Chinkin L.R., Souten D.R., and Roberts P.T. (1988) Evaluation of needs and options for improving ozone air quality planning capabilities for the Sacramento Metropolitan Area. Report prepared for the Sacramento County Air Pollution Control District, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, and Sonoma Technology, Inc., Santa Rosa, CA, SYSAPP-88/047.
- Mahoney L.A., Haney J.L., Chinkin L.R., and Ireson R.G. (1988) Capabilities needed for evaluation of nonphotochemical impacts of OCS emissions, task 7D. Final report prepared for the County of San Diego, San Diego, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/198.
- Roberts P.T., Chinkin L.R., Yocke M.A., Souten D.R., MacArthur R.S., Blumenthal D., and Roth P. (1988) San Joaquin Valley Air Pollution Study phase two modeling and analysis. Report prepared for the San Joaquin Valley Air Pollution Study Agency and California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/072.
- Whitten G.Z., Chinkin L.R., and Myers T.C. (1988) Assessment of the impact of bakery emissions on air quality: impact of ethanol emissions on ozone formation in the San Francisco Bay Area. Report prepared for Landels, Ripley, and Diamond by Systems Applications Inc., San Rafael, CA, SYSAPP-88/134.
- Yocke M.A., Ireson R.G., Eisinger D.S., Gardner L.A., Chinkin L.R., Haney J.L., Mahoney L.A., Roberts P.T., and Blumenthal D.L. (1988) Scoping study for data collection and urban airshed model performance evaluation in the San Diego Air Basin. Volume I: summary and recommendations. Report prepared for the County of San Diego, San Diego, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/201a.

- Yocke M.A., Ireson R.G., Eisinger D.S., Gardner L.A., Chinkin L.R., Haney J.L., Mahoney L.A., Roberts P.T., and Blumenthal D.L. (1988) Scoping study for data collection and urban airshed model performance evaluation in the San Diego Air Basin. Volume II: technical assessment. Report prepared for the County of San Diego, San Diego, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-88/201b.
- Chinkin L.R., Fieber J.L., and Latimer D.A. (1987) A level-3 assessment of visibility impacts associated with construction and operation of a proposed nuclear waste repository in Davis Canyon near Canyonlands National Park. Report prepared for Energy and Environmental Systems Division, Argonne National Laboratory by Systems Applications Inc., San Rafael, CA.
- Chinkin L.R., Latimer D.A., and Mahoney L.A. (1987) Western States Acid Deposition Project phase I: Volume 2 - a review of emission inventories needed to regulate acid deposition in the Western United States. Report prepared for the Western States Acid Deposition Project, Western Governors' Association by Systems Applications Inc., San Rafael, CA, SYSAPP-87/072.
- Chinkin L.R., Pollack A.K., and McDonald J.W. (1987) Air quality, emissions, and related factors in Santa Barbara County. Report prepared for the Western Oil and Gas Association, Glendale, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-87/100.
- Chinkin L.R., Pollack A.K., and McDonald J.W. (1987) Air quality, emissions, and related factors in Ventura County. Report prepared for the Western Oil and Gas Association, Glendale, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-87/109.
- Chinkin L.R., Weir B.R., and Latimer D.A. (1987) Inventory of chlorophenol use in the forest products industry and investigation of related emissions of chlorinated dibenzodioxins and dibenzofurans. Report prepared for the California Air Resources Board, Sacramento, CA, by Systems Applications Inc., San Rafael, CA.
- Permutt T.J., Chinkin L.R., Grosser S.C., and Hudischewskyj A.B. (1987) Default values for coal sulfur content for small sources. Draft final report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Systems Applications Inc., San Rafael, CA, SYSAPP-87/184.
- Souten D.R., Haney J.L., and Chinkin L.R. (1987) Evaluation of the air quality changes due to petroleum resource development in the California South Central Coast outer continental shelf area: further application of the JIMS project PARIS model to assess predicted 1990 and 1995 ozone concentrations. Final report prepared for the U.S. Department of the Interior, Minerals Management Service, New Orleans, LA, by Systems Applications Inc., San Rafael, CA.
- Mahoney L.A., Daly C., Chinkin L.R., and Austin B.S. (1986) Air quality and additional impact analysis for the authority to construct permit application for the West Contra Costa County Sanitary Landfill Power Project, Volume I. Report prepared for Gaia Associates, San Rafael, CA, by Systems Applications Inc., San Rafael, CA.
- Souten D.R., Chinkin L.R., and Haney J.L. (1986) Application of the PARIS model for 1990 and 1995 in the California South Central Coast Air Basin. Report prepared for the U.S. Environmental Protection Agency, Region IX, San Francisco, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-86/064.
- Souten D.R., Chinkin L.R., Haney J.L., Tesche T.W., Hogo H., and Dudik M.C. (1986) Evaluation and application of the PARIS photochemical model in the South Central Coast Air Basin, Volume II. Report prepared for the U.S. Environmental Protection Agency, Region IX, San Francisco, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-86/043.

- Tesche T.W., Myers T.C., Chinkin L.R., and Daly C. (1986) Cumulative ozone impact assessment for the Sycamore Cogeneration Company's Sycamore Project. Report prepared for Sycamore Cogeneration Company by Systems Applications Inc., San Rafael, CA, SYSAPP-86/091.
- Thrall A.D., Stoeckenius T.E., Chinkin L.R., and Pollack A.K. (1986) Recommendations for the analysis, development, and testing of a method for relating the frequency of occurrence of meteorological conditions to exceedances of the ozone NAAQS. Report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Systems Applications Inc., San Rafael, CA, SYSAPP-86/016.
- Chinkin L.R., Latimer D.A., and Smith T.B. (1985) Assessment of stagnation potential in the Lake Powell Basin. Report prepared for Salt River Project, Environmental Services Department, Phoenix, AZ, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/004.
- Chinkin L.R., Hogo H., and Latimer D.A. (1985) The appearance of layered haze visible from Bryce Canyon National Park, Utah. Report prepared for Salt River Project Environmental Services Department, Phoenix, AZ, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/035.
- Chinkin L.R., Saxena P., Oliver W.R., and Austin B.S. (1985) Emission projections for OCS platforms and related sources. Report prepared for the U.S. Department of the Interior, Minerals Management Service, New Orleans, LA, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/159.
- Latimer D.A., Chinkin L.R., Dudik M.C., Hogo H., and Ireson R.G. (1985) Uncertainties associated with modeling regional haze in the Southwest. Report prepared for American Petroleum Institute, Washington, DC, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/108.
- Latimer D.A., Hogo H., Ireson R.G., Lundberg G.W., Chinkin L.R., and Mahoney L.A. (1985) Analysis of visibility and acid deposition impacts resulting from power plants located at alternative sites in Arizona. Report prepared for Salt River Project Environmental Services Department, Phoenix, AZ, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/148.
- Souten D.R., Tesche T.W., Haney J.L., Chinkin L.R., Hogo H., and Dudik M.C. (1985) Evaluation of photochemical models for use in the South Central Coast Air Basin. Report prepared for the U.S. Environmental Protection Agency, Region IX, San Francisco, CA, by Systems Applications Inc., San Rafael, CA, SYSAPP-85/099.
- Yocke M.A., Morris R.E., Hogo H., Chinkin L.R., and Mahoney L.A. (1985) Analysis of the air quality impacts of the San Miguel Project. Report prepared for Cities Service Oil & Gas Corporation and Bechtel Petroleum, Inc. by Systems Applications Inc., San Rafael, CA, SYSAPP-85/127.

Book Chapter

- Magliano K.L. and Chinkin L.R. (1994) Emissions inventory planning and development. In *Planning and Managing Regional Air Quality Modeling and Measurement Studies: A Perspective Through the San Joaquin Valley Air Quality Study and AUSPEX*, Solomon P.A. and Silver T.A., eds., CRC Press, Inc., Boca Raton, FL, pp. 545-560.