

Lyle R. Chinkin

Lyle Chinkin A.Q.E. LLC

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Personal Statement

Lyle Chinkin is a nationally recognized expert in the preparation and assessment of emissions inventories of air pollutants and air quality analysis. He delivers independent, science-based assessments of emissions, compliance, and air quality impacts that are easily understood by the every day person. Committed to clarity, integrity, and technical excellence, he provides expert witness services that translate complex data into objective, compelling insights.

With over 40 years of experience, Lyle has been recognized nationally as a top air quality expert, serving on the National Research Council of a National Academy of Sciences Committee and on a panel to review "Improving Emission Inventories for Effective Air Quality Management Across North America, a NARSTO Assessment" (2005). His publications have been [cited over 750 times](#).

EDUCATION AND TRAINING

BS, Atmospheric Science, summa cum laude, University of California at Davis, 1981

MS, Atmospheric Science, University of California at Davis, 1984

RESEARCH AND PROFESSIONAL EXPERIENCE

President, Lyle Chinkin A.Q.E. LLC, Novato CA 2026 - Present

Conducts emissions inventory and air quality studies relating to air pollution worldwide for government and private industry

Chief Executive Officer, Chief Scientist, Sonoma Technology, Petaluma CA 2018 - 2025

President, Sonoma Technology, Inc. Petaluma CA 2006 - 2017

Manager of Emissions Modeling Sonoma Technology, Inc., Petaluma, CA 1992 - 2006

Managed emissions inventory studies of air pollution worldwide for government and private industry

Managed a multi-million-dollar level-of-effort contract with the U.S. Environmental Protection Agency for air quality modeling assistance

Manager of Emissions Modeling Group Systems Applications, Inc., San Rafael, CA 1989 - 1992

Managed emissions inventory studies relating to air pollution throughout the world

Senior Atmospheric Scientist Systems Applications, Inc., San Rafael, CA 1984 - 1989

Conducted emissions inventory studies and developed software to process emissions inventory data into model-ready inputs for comprehensive 3-d photochemical models

Assistant Meteorologist, Meteorology Section, California Air Resources Board 1982 - 1984

Conducted climatological studies relating to air pollution in California

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.

Journal Articles

Journal Articles Dourson M.L., Chinkin L.R., MacIntosh D.L., Finn J.A., Brown K.W., Reid S.B., and Martinez J.M. (2016) A case study of potential human health impacts from petroleum coke transfer facilities. J. Air Waste Manage., doi: 10.1080/10962247.2016.118032.

Raffuse S.M., Larkin N.K., Strand T.T., Drury S.A., Solomon R.C., Sullivan D.C., Wheeler N.J.M., and Chinkin L.R. (2010) Developing an improved wildland fire emissions inventory for the United States. Paper presented at the International Workshop on Air Quality Forecasting Research, Quebec City, Canada, November 16-18, by Sonoma Technology, Inc., Petaluma, CA. Available at https://gaftp.epa.gov/Air/nei/ei_conference/EI20/session7/larkin.pdf. Wheeler N., Funk T.,

Raffuse S., Drury S., Nuss P., Unger K., Yahdavi L., Pryden D., Healy A., Haderman M., Chinkin L., Cissel J., and Rauscher H.M. (2010) A new decision support system based on a service oriented architecture. 9th Annual CMAS Conference, October 11. Available at https://moam.info/a-new-decision-support-system-based-on-a-service_5afecadd8ead0e36078b4605.html.

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.

McCarthy M.C., Eisinger D.S., Hafner H.R., Chinkin L.R., Roberts P.T., Black K.N., Clark N.N., McMurtry P.H., and Winer A.M. (2006) Particulate matter: a strategic vision for

transportation-related research. Environ. Sci. Technol. 40 (18), 5593-5599. Available on the Internet at <http://pubs.acs.org/doi/abs/10.1021/es062767i>.

Raffuse S.M., Sullivan D.C., Brown S.G., and Chinkin L.R. (2005) Estimating Regional Contributions to Atmospheric Haze Using GIS. ESRI International User Conference Proceedings. Available at <https://proceedings.esri.com/library/userconf/proc05/papers/pap1818.pdf>. 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 activity patterns for ozone precursor emissions in California's South Coast Air Basin. J. Air Waste Manage., 53(7), 829-843, doi: 10.1080/10473289.2003.10466223, July. Available at <https://pubmed.ncbi.nlm.nih.gov/12880071/>.

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. 12th International Emission Inventory Conference, San Diego, CA, April 28. Available at <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.553.46&rep=rep1&type=pdf>.

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 PM2.5 source contributions and comparison to emissions during the 1995 Integrated Monitoring Study. Atmos. Environ. 33(29), 4757-4774. doi: 10.1016/S1352 L.R. Chinkin Page 2 2310(99)00265-4, December. Available on the Internet at [https://doi.org/10.1016/S1352_2310\(99\)00265-4](https://doi.org/10.1016/S1352_2310(99)00265-4).

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.

Whitepapers

Chinkin L.R. (2022) The developing state of PFAS regulations. March 18. Available at <https://www.linkedin.com/pulse/developing-state-pfas-regulations-sonoma-technology-inc-/>.