



Sonoma Technology, Inc.

LYLE R. CHINKIN

President

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Educational Background

M.S. Atmospheric Science, University of California at Davis
B.S. Atmospheric Science, *summa cum laude*, University of California at Davis

Professional Experience

Mr. Chinkin joined Sonoma Technology, Inc. (STI) in 1992 and is STI's President. He has over 25 years of professional consulting experience in air quality and over 5 years of experience at the California Air Resources Board.

Mr. Chinkin is a nationally recognized expert in emission inventory preparation and assessment and air quality analysis. He has worked on projects for federal, state, and local government agencies; universities; public and private research consortiums; and major corporations. Mr. Chinkin's areas of expertise include (1) developing and improving regional emission inventories; (2) providing independent assessments of emission inventories using bottom-up and top-down evaluation techniques; (3) conducting field studies to obtain real-world data and improve activity estimates and emission factors; (4) conducting scoping studies to develop conceptual models of community-scale air quality; (5) assisting with State Implementation Plan (SIP) development; and (6) providing expert testimony and presentations to public boards. He has been appointed to the National Research Council of the National Academy of Sciences Committee on the Effects of Changes in New Source Review Programs for Stationary Sources of Air Pollutants and to a panel to review "Improving Emission Inventories for Effective Air Quality Management Across North America, a NARSTO Assessment" (2005). In 2008, Mr. Chinkin was a speaker at the Sierra Ozone Summit.

Mr. Chinkin served as (1) an EPA-invited peer-reviewer of the EPA particulate matter (PM) National Ambient Air Quality Standards Criteria Document and the draft EPA Report on the Environment 2006; (2) an expert panel member for the review of the Valdez Air Health Study; and (3) an expert witness for U.S. Department of Justice environmental enforcement actions. Mr. Chinkin was the project manager and co-author of the EPA national guidance document on the preparation of emission inputs for photochemical air quality simulation models. In addition, his projects have included improving estimates of PM and ammonia emissions, evaluating internal combustion engine activity profiles and emissions, determining emissions from propane use and distribution systems, determining air toxic emissions from wood-preservation activities, and improving biogenic emission estimation tools. He frequently directs studies that combine public- and private-sector participation (e.g., an assessment and ground-truth study of industrial emissions in the Houston Ship Channel under the joint direction of the Texas Natural Resource Conservation Commission [now Texas Commission on Environmental Quality] and local industry). Mr. Chinkin has also assisted numerous industrial clients with projects such as development of emission-estimation tools for the American Petroleum Institute and top-down evaluations of emission inventories for the Coordinating Research Council.

Mr. Chinkin is frequently called upon by clients to explain complicated technical information to other air quality professionals, advisory boards, and members of the public. He presented research findings to public advisory committees in Ohio, Kansas, and Missouri and to senior federal and state government officials in Minnesota and at numerous scientific conferences. EPA selected Mr. Chinkin to help prepare a summary of the proceedings of the 2003 NARSTO air quality research conference, and to help an audience of air quality officials from four western U.S. states understand technical air toxics assessment techniques.

Memberships and Professional Certification

Air & Waste Management Association
American Meteorological Society (1979-1984, 2012)
California Registered Environmental Assessor (REA-00715) (1984-1989)
International Association of Wildland Fire

See <http://www.sonomatech.com/ResPub/LRCpub.pdf> for a list of publications.