



Lyle R. Chinkin

Chief Scientist

Chief Executive Officer



Mr. Chinkin joined STI in 1992. He has over 35 years of professional experience in air quality, including five years of experience at the California Air Resources Board, and serves on STI's Board of Directors. Mr. Chinkin is a nationally recognized expert in the preparation and assessment of emissions inventories of air pollutants 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. Many of his projects involve the use of computerized air quality modeling simulations using Gaussian dispersion models as well as one-atmosphere, full-chemistry photochemical grid models. His areas of expertise include (1) developing regional emissions inventories; (2) providing independent assessments of emissions inventories using bottom-up and top-down evaluation techniques; (3) obtaining real-world data and improving activity estimates; (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). Mr. Chinkin has authored one book chapter; published six peer-reviewed journal papers and over 200 scientific reports; and made over 100 presentations at conferences and public meetings.

Mr. Chinkin served as an EPA-invited peer reviewer three times, including for the EPA particulate matter (PM) National Ambient Air Quality Standards Criteria Document, the 2006 draft "EPA Report on the Environment," and an EPA report on air quality impacts from a railyard operated in an urban environment. He also served as an expert panel member for the review of the Valdez Air Health Study; and as an expert witness for the U.S. Department of Justice and the Attorney General's Office of the State of North Carolina on 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, determining air toxic emissions from wood-preservation activities, and improving natural source emission estimation tools, including biogenic VOCs and smoke from wild and prescribed fires. He frequently directs studies that combine public- and private-sector participation, including 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 emissions inventories for the Coordinating Research Council. He served as STI's president for 11 years.

Mr. Chinkin is frequently called upon by clients to explain complicated technical information to other professionals, advisory boards, and members of the public. He has 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. The EPA selected Mr. Chinkin to help prepare a summary of the proceedings of the 2003 NARSTO air quality research conference. Mr. Chinkin helps oversee STI's role in running the EPA's award-winning AirNow program, which disseminates air quality data in near-real time throughout the U.S.

Education

- MS, Atmospheric Science, University of California at Davis
- BS, Atmospheric Science, *summa cum laude*, University of California at Davis

Memberships

- Air & Waste Management Association
- American Meteorological Society (1979-1984, 2012)
- California Registered Environmental Assessor (REA-00715) (1984-1989)
- International Association of Wildland Fire
- Served on three EPA peer-review panels and one NARSTO peer review panel
- Served on one National Academy of Sciences Committee