

DANA COE SULLIVAN
Project Manager/Air Quality Analyst



Educational Background

M.S.P.H., Environmental Science and Engineering, University of
North Carolina
B.S., Civil Engineering, Northwestern University

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Professional Experience

Ms. Sullivan joined STI's Emissions Assessment Group in 1995. Her work has focused on emissions studies, including emission inventory development, emissions data analysis, development of emissions guidance, software design, and measurement of emission factors and activity levels. Currently, Ms. Sullivan is managing a \$1 million project for NASA to expand the BlueSky System—a decision support system for predicting the emissions and air quality impacts of wildland fires—to a national-scale operation that utilizes satellite fire detections as well as ground-based reports as inputs.

Ms. Sullivan has managed, or provided key technical direction for, a number of STI's emission inventory development projects: the Central States Regional Air Planning Association's emission inventories of ammonia, planned burning activities, mobile sources, and agricultural fugitive dust; the Bay Area Air Quality Management District's development of a region-wide air toxics emission inventory; the California Energy Commission's Greenhouse Gas Emission Inventory; the California Air Resources Board's (ARB) 1997 South Coast Ozone Study (SCOS97)-NARSTO Emission Inventory; and the ARB's comprehensive ammonia emission inventory for the San Joaquin Valley.

Emissions activity data collection projects and field studies are additional areas of interest to Ms. Sullivan. For the National Renewable Energy Laboratory and the ARB, Ms. Sullivan directed data collection and data analyses to model "the weekend smog effect", or the phenomena that cause high levels of air pollution during weekends in southern California. These weekend effect studies included data collection and analyses for mobile, point, and area emissions sources through the use of surveys, traffic counters, and instrumented vehicles. For the Emissions Activity Study of the California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS), Ms. Sullivan designed and coordinated ground-truth surveys to characterize sources of particulate matter (PM) in the vicinities of PM air quality monitoring sites, and led the development of an Internet application to interactively communicate the results. In a project for the San Joaquin Valley Air Pollution Control District, Ms. Sullivan worked on telephone survey designs and data analyses to assess emissions from agricultural sources.

For other projects, Ms. Sullivan has developed emissions estimation guidance documents and emissions calculator software tools; analyzed speciated hydrocarbon data collected at Photochemical Assessment Monitoring Stations (PAMS) for the U.S. EPA-sponsored PAMS workshops; compared and contrasted results of alternate future-year emissions projection methods in central and southern California; evaluated emissions estimation techniques and analyzed data for the petroleum industry; coordinated field activities during the 1996 Paso del Norte Ozone Study; evaluated the national emission inventory for heavy-duty vehicles; and developed a method to estimate on-road fuel consumption for a U.S. EPA Office of Mobile Sources guidance document.

Memberships

Air and Waste Management Association
American Society of Civil Engineers