

TIMOTHY S. DYE, CCM

Senior Vice President

Division Manager, Meteorological Programs and Public Outreach Group



Educational Background

M.S., Meteorology, Pennsylvania State University

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Professional Experience

Mr. Dye joined STI in 1990 and is responsible for strategic planning and management of STI's forecasting/public outreach, meteorological analysis, and radar wind profiler (RWP) business areas. He specializes in developing innovative information systems for air quality applications and public communication. He is an internationally recognized leader in the development of air quality information and forecasting systems. Mr. Dye has led the development of the U.S. Environmental Protection Agency's (EPA) AIRNow program since 2002; was lead author of the EPA guidance document for setting up ozone and PM2.5 forecasting programs; led the development of the World Meteorological Program's course on air quality forecasting; and developed a wide range of objective forecasting tools to predict air quality.

Mr. Dye, with years of project and program management experience, has introduced many innovative programs. Since 2000, he individually managed over 30 projects/work assignments and was involved in over 100 work assignments for the EPA. He designed and led STI's air quality mapping and forecasting programs, including the Sacramento, California, ozone forecasting program (1996-2009) and the EPA's AIRNow program (2002-2009). Mr. Dye led the redevelopment of EPA's AIRNow program to modernize the software systems to use GIS-based mapping, relational databases, and interoperable web services for distributing AIRNow data and information. He is leading the EPA's effort to expand the AIRNow program internationally (AIRNow-International).

Mr. Dye developed a variety of science-based public outreach tools to help air quality agencies communicate technical, scientific information to the public. He led the development of a web-based ozone simulator called SmogCity, www.smogcity2.org, that educates the public about the cause-and-effect relationships between ozone formation and weather, emissions, and population. Mr. Dye also developed AirShare, www.airshare.info, a social networking system that provides a web-based clearinghouse for air quality communicators to exchange and share information about their local air quality outreach programs.

Mr. Dye has been involved in many aspects of over 50 RWP installations and operations, including project management, site selection, instrument deployment, network management and remote access, and data processing, quality control, and analysis. He designed and operated a data acquisition and processing system that automatically collects, processes, and quality-controls upper-air wind and temperature data. Mr. Dye conducted analyses to evaluate boundary layer structure and evolution throughout the United States and developed algorithms to estimate mixing height from reflectivity data collected by RWPs. He used these analyses to create conceptual models that describe the phenomena responsible for producing pollution episodes. Mr. Dye serves on the Management Review Board for STI's participation in a Cooperative Research and Development Agreement (CRADA) to commercialize the National Oceanic and Atmospheric Administration's (NOAA) boundary layer radar profiling technology. In addition, Mr. Dye serves on the American Meteorological Society's Board on the Urban Environment and Board of Certified Consulting Meteorologists.

Memberships

American Meteorological Society

Certified Consulting Meteorologist (#619)

See <http://www.sonomatech.com/staff.cfm> for a list of publications.