



## Steven Schill, PhD

*Program Lead, Refinery Monitoring  
Corporate Quality Assurance Manager*

Dr. Steven Schill has 15 years of experience with measurements of atmospheric species, involving lab and field studies, and a wide range of environmental instrumentation. He supports a broad scope of regulatory monitoring and litigation measurement projects at Sonoma Technology, and manages the company's Insight<sup>®</sup> Data Management System and AQ360<sup>®</sup> Source-Receptor Modeling platforms. Dr. Schill is a leading technical expert and currently serves on the Board of Directors of the Air and Waste Management

Association (A&WMA), Golden West Section.

Dr. Schill leads the refinery fenceline monitoring program at Sonoma Technology, identifying needs and unifying processes across a diverse team of field staff, technical project managers, data analysts, software engineers, and corporate leadership. He oversees quality assurance and data reporting activities across multiple regulatory districts, working with clients and regulators to meet project goals.

For environmental attorneys and their clients, Dr. Schill provides expert consulting services regarding the appropriate selection of measurement technologies across a variety of use cases. Ethylene oxide (EtO) is a species of specific interest to Dr. Schill, and his expertise is relevant to worker safety, assessment of outdoor concentrations at facility fencelines and/or background levels, integration with building management systems, and monitoring of exhaust stack vent gases. For example, Dr. Schill has designed and implemented bench-scale experiments to evaluate the effectiveness of alternative catalytic oxidizers at mitigating EtO emissions. He also has advised multiple attorneys and their clients about appropriate instrument selection, deployment, and interpretation of results for indoor, outdoor, industrial, and laboratory settings.

Prior to joining Sonoma Technology, Dr. Schill was an Instrumentation Engineer for the National Suborbital Research Center (NSRC), where he oversaw the calibration, maintenance, and repair of airborne meteorological sensors with the National Aeronautics and Space Administration's (NASA) Airborne Science Program. In this role, Dr. Schill supported NASA Earth Science missions on multiple airborne platforms around the globe, ensuring data fidelity and providing high-quality engineering support to science collaborators from industry, government, and academic institutions. For his efforts, he was awarded an Outstanding Achievement Award from the NASA Airborne Science program.

Dr. Schill's graduate work included field and laboratory studies of coastal aerosol particles, which examined how particle composition and mixing state changed their ability to form clouds and impact the global climate. As a part of the highly collaborative National Science Foundation Center for Aerosol Impacts on the Chemistry of the Environment (CAICE), Dr. Schill regularly coordinated projects with a geographically dispersed and technically diverse team. He was the recipient of an American Geophysical Union Outstanding Student Presentation Award, as well as a San Diego Diversity Fellowship award.

### Education

- PhD, Chemistry, University of California, San Diego
- MS, Chemistry, University of California, San Diego
- BS, Chemistry, California State University, Fullerton

### Memberships

Air & Waste Management Association

For a list of publications, see [sonomatech.com/ResPub/SRSpub.pdf](https://sonomatech.com/ResPub/SRSpub.pdf).