Ross M. Mohs

Group Manager, Northern California Field Group

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Mr. Mohs joined Sonoma Technology in 2021. His primary duties are operating, performing maintenance on, and collecting measurements from open-path monitoring instruments used at petroleum refineries in southern and northern California. These instruments include Ultraviolet Differential Optical Absorption Spectroscopy (UV-DOAS), Fourier Transform Infrared Spectroscopy (FTIR), and Tunable Diode Laser Absorption Spectroscopy (TDLAS). He is also proficient in various spectroscopic analysis software provided by the vendors of open-path instrumentation (including CEREX, Unisearch, and Kassay). This work provides the data needed to inform local community members about the status of their air quality through user-friendly websites. Mr. Mohs is also involved with field deployments of instruments to collect measurements of a variety of gaseous and particulate air pollutants, as well as meteorological variables.

In his work as lead air quality technician at a northern California petroleum refinery, Mr. Mohs tests the function and operation of our TDLAS instruments. These instruments allow for real-time open-path monitoring of hydrogen sulfide, H_2S. His efforts aid in the deployment of TDLAS systems at other refineries. He also assists with performing remote maintenance work for a southern California petroleum refinery as well as maintaining meteorological equipment at California Department of Transportation sites throughout northern California.

Education

BS, Chemistry, Sonoma State University with a minor in Environmental Studies and Planning

Certifications

Refinery Safety Certified, Occupational Safety Councils of America

Prior to working at Sonoma Technology, Mr. Mohs spent his undergraduate years at Sonoma State University studying analytical chemistry; he received his Bachelor of Science in Chemistry and a Minor in Environmental Studies and Planning. His capstone project focused on tropospheric measurements of volatile organic compounds (VOCs) and their effect on ozone production using gas chromatography mass spectrometry (GCMS). From there, he worked as an analytical chemist at various laboratories in Sonoma County, California, and discovered his passion for instrumentation. He enjoys being able to use both of his skillsets—atmospheric chemistry and instrumentation—at Sonoma Technology, and takes pleasure knowing his work helps facility staff and community members stay informed about their local air quality.

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