

Role on Project

Distribution water quality source transition, pipe-scale integrity and internal corrosion control

Years of Experience

29

Relevant Experience

- State certified instructor for water and wastewater operation classes in various states
- Supported numerous AWWARF projects related to lead corrosion in drinking water, including effects of partial lead service line replacement and effects of chlorine and chloramine disinfectant
- Current Chair of AWWA's Distribution Water Quality Committee and chair for developing the latest addition of AWWA's industry manual of practice for *Internal Corrosion Control Treatment for Drinking Water Distribution Systems*

Education

BS, Environmental Studies, East Stroudsburg University, East Stroudsburg, Pennsylvania

AAS, Biotechnology, State University of New York, Cobleskill, New York

Professional Registration

State certified instructor for water and wastewater operation classes in several states,

Level IV (highest level) operator's licenses for water treatment and water distribution systems in the states of Washington and Oregon

Representative Project Experience

Drinking Water Compliance Coordinator, CH2M HILL, Kansas City, MO. Duties include assisting OMBG drinking water utilities with ensuring regulatory compliance in all aspects of state and federal drinking water regulations.

Also to provide technical assistance related to compliance of drinking water treatment and distribution operations. This includes surface and groundwater treatment, treatment techniques, monitoring and maintaining/troubleshooting distribution water quality. Additionally, high expertise related to corrosion control treatment of drinking water and lead/copper optimization in the distribution system.

Currently providing technical support for distribution water quality source transition for several utilities, and senior advisor to CH2M staff that are working with large municipalities to develop lead service line replacement programs.

Manager, Water Quality Group, Portland Water Bureau, Portland OR. Responsible for managing the City of Portland's Water Quality Division, which included oversight of two supervisory levels. The Division houses four sections including the Field Inspectors section, Water Quality Customer Service, Regulatory Compliance, and an accredited Water Quality Laboratory. The Division encumbers water quality sample collection, analysis and data review for drinking water compliance and public health protection in the distribution system and the watershed, engineering review of construction plans, and cross connection permitting to name a few priorities. The Division also houses the responsibility to monitor and maintain the only watershed variance in the nation with respect to filtration and ultraviolet (UV) treatment avoidance. He managed the division during the LT2 variance negotiations with the state and the development of the variance monitoring plan. He initiated performance planning and goals to the Division to streamline operations and provide a tracking mechanism to maintain exceptional water quality. Mr. Giani instituted new monitoring programs to help reduce lead levels in customer homes and identify water quality degradation from nitrification. Mr. Giani instituted more efficient and sanitary methods for collecting regulated bacteria samples to reduce false positive readings.

Manager, Drinking Water Division, District of Columbia Water and Sewer Authority, Washington, D. C. Responsible for managing the District's Drinking Water Division, which included oversight of two supervisory levels. The Division encumbered the water quality monitoring program, cross connection program, flushing program,

emergency response, and security monitoring. His primary responsibility was to ensure safe, high water quality throughout the District. Other responsibilities included submission of monthly compliance reports to the U.S. EPA, providing expert testimony involving litigation, budget and workplan and development, union negotiation and arbitration, participate on national regulatory committees, provide guidance for public outreach documents and press releases, and oversight of national research projects involving the authority. He brought the authority back into compliance during the 2004 lead corrosion crisis. Mr. Giani reduced lead levels to 5 parts per billion (ppb) in 2011, the lowest recorded action level since the inception of the LCR for the District. He reduced the District's total coliform drinking water levels to below 0.5 percent. He developed a water quality rapid emergency response program and an efficient and aggressive routine monitoring and customer complaint program. He also developed national guidance for corrosion control monitoring.

Environmental Research Specialist, Pennsylvania DEP, Harrisburg, PA. Responsible for conducting environmental research, managing state funded research projects, providing technical guidance and training to department staff, plant operators, and environmental engineers. He had 5 years of experience in drinking water research. Mr. Giani's primary focus was on the national lead and copper rule and optimization of drinking water plant operations. He managed the technical outreach program. His responsibilities included overseeing operations and supervising 30 technical specialists statewide who focused on providing operator and management assistant to small utilities. He conducted research for the biosolids program focusing on biosolids odor emissions, analysis of Vector Attraction Reduction (VAR) options, development of national computer software for VAR and Pathogen treatments as well as development, teaching, and oversight of the Commonwealth's mandatory biosolids training program. His duties also include publishing research papers and speaking at state and national conferences.

Field Sanitarian, Pennsylvania DEP, Stroudsburg, PA. Environmental Field Inspector for the Commonwealth of Pennsylvania. His responsibilities included enforcement of the state drinking water and public eating facilities regulations. His duties consisted of inspecting public water supplies, conducting drinking water field sampling and analysis, determine drinking water health threats and oversee compliance of water plant operations. He co-authored several major AWWARF projects related to lead corrosion in drinking water including effects of partial lead service line replacement and effects of chlorine and chloramines disinfectant.