

# **Charles Frederick Heimerdinger**

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## **OBJECTIVE**

Work for a manufacturer/distributor of chemicals and/or in a technical support position in the water treatment industry.

## **ACCOMPLISHMENTS**

- Turned around four small wastewater treatment plants in upstate New York—two fixed-media and two activated sludge facilities. Implemented changes that improved plant efficiencies and resulted in higher quality effluent and improved SPDES compliance. Began keeping records to track daily performance at three plants that previously did not have record-keeping procedures in place.
- Successfully eliminated the transportation and delivery of non-hazardous scale/corrosion inhibitor solutions to several cooling tower locations by using dry active ingredients to make the solutions on site. Retrofitted ORP controlled chemical controllers to use trichloroisocyanuric acid tablets for cooling tower disinfection at locations that previously used bulky sodium hypochlorite solution or sodium hypobromite solution.
- Identified several overseas decommissioned chlor-alkali plants and imported the surplus electrodes for resale to coating companies so they could build their pools of refurbished electrodes to exchange for depleted electrodes from other cell room owners. Hundreds of anodes and cathodes were resold to DeNora and Ineos, two world-class electrode manufacturers. Also sold several dozen anodes refurbished in China to Axiall Corporation (now Westlake Chemical).

## **SKILLS**

Product and market development. Sales lead generation. Water treatment chemical formulation and blending experience. Waste-stream reduction and chemical recovery. Computer literate.

## **EMPLOYMENT HISTORY**

April 2022 to present. Savannah Valley Utility District, Georgetown, TN. Smith Road water treatment

plant operator.

January 2020 to March 2022. Chief plant operator, NetZero WWTF, Rotterdam, NY. Facility is a small fixed-media process that has struggled to meet effluent permit discharge limits.

Discovered that the recirculation splitter valve was causing low secondary effluent recirculation volume leading to low dissolved oxygen, sludge bulking, inadequate primary effluent dilution and inadequate nitrification (high NH<sub>3</sub> levels). Made manufacturer-assisted adjustment and introduced nitrifying bacteria. Problem solved. Began keeping a plant log when hired and spreadsheets to track plant performance leading to improved plant performance and regulatory compliance.

January 2019 to March 2022. At-grade plant operator, Forest Hills MHC WWTF, Ballston Spa, NY. Facility is a year-round small activated sludge process. Reduced sludge volume and plant odors by re-activating an idle aerobic digester that was previously used as a passive holding tank. Instituted a daily log and upgraded spreadsheets for improved information handling.

September 2015 to March 2022. Senior Field Chemist, Dynasty Chemical Company. Helped company to provide chemical treatment services to its cooling tower and steam boiler customers.

May 2019 to October 2021. At-grade plant operator, Sunset Bay Vacation Resort, Mayfield, NY. Facility is a seasonal small activated sludge process. Started keeping an on-site written operator log and a hard-copy spreadsheet system for data entry. Set up computerized spreadsheets with macros for easier data handling and regulatory report generation. Discovered that previous plant operators had kept inadequate records and that 60% of plant's process train had failed causing frequent process upsets and inability to consistently meet effluent permit discharge limits. Result: owner hired a professional engineer and plant has been restored to original design specs.

June 2016 to January 2019. At-grade plant operator, Broadalbin Village WWTF. Plant had suffered from years of operator and owner neglect. During a non-routine self-initiated/motivated troubleshooting project discovered that three clarifier rakes had broken tie-rods and turnbuckles, and were in danger of imminent failure which forced owner to make repairs. Found many other problems - failed/failing equipment and operational deficiencies. Personally made repairs/changes when/where possible when plant owner was unable or unwilling to take action.

May 2015 to July 2015. Dynasty Chemical Company, Lysite, WY. Was subcontracted to work for General Electric Water & Power to assist in the commissioning process of its water purification plant in the Moneta Basin designed to convert produced water from fracked gas wells into drinking water quality effluent before disposal. Helped to set up the lab and run water quality tests, assisted bringing in first loads of bulk hydrochloric acid, bulk caustic soda and sulfuric acid; developed safe offloading procedures, performed troubleshooting on HCl fume scrubber.

Feb. 2011 to Jan. 2012. Senior field chemist, Dynasty Chemical Corp., Albany, NY. Was a

subcontractor for GE Power & Water at the Global Foundries chip foundry (while under construction) in Malta, NY. Set up temporary fill connections for bulk chemical deliveries of caustic soda and hydrochloric acid while waiting for permanent infrastructure to be built. Put together an on-site spill response plan. Collected samples of water produced at various points in the ultra-pure water production process for quality assurance testing. Developed infrastructure and rigorous sampling techniques to avoid contaminating these samples with airborne particulates.

## **EDUCATION**

- Master of Business Administration, State University of New York at Albany.
- Bachelor of Science in Chemistry, Lafayette College.

## **CERTIFICATIONS AND LICENSES**

TDEC Grade 3 water treatment plant operator's license

TDEC Grade 2 wastewater treatment plant operator's license