

Ryan E. Hennessy

Principal Scientist/ Ryan Hennessy Wastewater Microbiology

PRINCIPAL SCIENTIST/ WASTEWATER MICROBIOLOGY

Microscopy and troubleshooting: Mentored by Dr. Michael Richard (2010-2021)
Honored to have inherited micro client base upon Dr. Richard's retirement in 2019
Provide wastewater microscopy reports and troubleshooting services for industrial and municipal wastewater plants across USA and Canada for over 400 clients
Provide hands-on microscopy training upon request
Matching genetic findings to microscopy reports/ creating database for future reference/publication

PREVIOUS: WASTEWATER/ WATER OPERATOR/ MANAGER

Operated/filled in at several contract operated wastewater facilities as needed
Managed a pre-treatment industrial plant that discharges to POTW

• OTHER PROFESSIONAL EXPERIENCE

Lead wastewater operator at industrial wastewater treatment plant (7 years).
Responsibilities included: environmental reporting, management, working with engineering staff on various projects, providing microbial diagnosis for company
Over 15 years of hands-on wastewater operator experience in addition to ten plus years of professional microscopy and consulting services.

AUTHOR/ PUBLIC SPEAKING

Updated Handbook for Wastewater Microscopy Applications and Filamentous Morphotype ID Methods Acknowledging Recent Genetic Findings, 2020

Wastewater Microbiology: Filamentous Bacteria Morphotype Identification Techniques and Process Control Troubleshooting Strategies, 2022

Author for TPO (Treatment Plant Operator) online "bug of the month" article series.

Over 50 presentations for various wastewater organizations on wastewater microscopy related topics including pre-conference workshops

Contact info:
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Specialized Competence:

Microbial Diagnosis and Correction of Wastewater Mixed Liquor Problems
Wastewater Treatment Facility Operations
Training and Public Speaking

Educational Background:

A.S. Management – Waukesha County Technical College, 2003
Water and Wastewater Courses: Milwaukee Area Technical College, Moraine Park Technical College, Milwaukee Area Technical College
Continued Education Courses
Water & Wastewater Related; Wisconsin DNR Identification of Filamentous Bacteria Found in Wastewater – Dr. Michael Richard- 10 years + mentorship

Professional Affiliations:

WEFTEC Microbiology Training Panel
Former Wisconsin Wastewater Operators Association ("WVVOA") Board of Directors
Illinois Section Water and Wastewater Association ("ISAWWA")
Water Environment Federation ("WEF")
Manager of Water and Wastewater Professionals group on LinkedIn.

Certifications:

Certified Wastewater Treatment Facility Operator's License
State Of Wisconsin
Subclasses include Activated Sludge, Anaerobic Digestion, Disinfection, Filtration, Laboratory, Mechanical Sludge, Phosphorus Removal, Ponds/ Aerated Lagoons, Primary Settling, Trickling Filter/ RBC
Certified Municipal Waterworks Operator License
State of Wisconsin
Reciprocity license for wastewater in state of Illinois

Awards:

2015 ISAWWA Educator of the year
2020 WVVOA Kobe Crabtree