



# AEROBIC GRANULAR SLUDGE TECHNOLOGY SEMINAR



**AquaNereda®** July 19 - 20, 2023 | Rockford, IL

Through extensive research and successful application internationally over the last 20+ years, aerobic granular sludge is recognized as "The Future" of municipal and industrial wastewater treatment and is the most sought-after, progressive treatment technology.



In 2016, Aqua-Aerobic Systems, Inc. partnered with Royal HaskoningDHV, one of the original developers of the **Nereda®** technology and is now the exclusive provider of this technology in the United States and Canada.

## What You Can Expect

- Learn how granules are formed from conventional activated sludge
- See how the process works
- Get acquainted with the operation of aerobic granular sludge technology through a full-scale plant tour
- Guest presenters will discuss why they chose to integrate the **AquaNereda®** System into their facility
- Review process performance and case studies
- Learn how aerobic granular sludge handles peak flows and loads
- Understand best applications for the process
- Earn 8 Professional Development Hours (PDH)
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## Technology Overview

Within a single tank, the **AquaNereda®** system creates proper conditions to develop and reliably maintain a stable granule, without a supplemental carrier.

The granule layered aerobic and anoxic/anaerobic zones allow for simultaneous processes to take place in the granular biomass, including enhanced biological phosphorus reduction, and simultaneous nitrification and denitrification.

Compared to activated sludge technologies, the biological treatment power of **AquaNereda®** is highly amplified while saving 50% on energy costs, delivering high quality effluent for low costs and requiring only a quarter of the area of conventional activated sludge systems.



## AquaNereda® Features and Advantages

- Up to 75% Less Footprint
- Energy Savings Up to 50%
- Virtually No Chemicals Required for Nutrient Removal
- SVI Values of 30-50 mL/g and MLSS of 8,000 mg/l
- No Secondary Clarifiers, Selector Zones of Return Sludge Pumping
- Robust Process without a Carrier

# AQUA-AEROBIC RESEARCH & TECHNOLOGY CENTER

Tour the Aqua-Aerobic **Research & Technology (R&T) Center** and get an extensive overview of our full-scale **AquaNereda®** Aerobic Granular Sludge treatment plant the day before the seminar.



A tour of the **Aqua-Aerobic Research and Technology Center** located at the local wastewater treatment plant will be conducted the day before the seminar. The center provides a unique opportunity to facilitate performance testing of various engineered cloth media on various configurations, under controlled conditions to deliver reliable insights into optimizing commercial application.



The expanded visit at the Research & Technology Center will also include a tour of the **AquaNereda** full-scale treatment plant. A brief presentation will acquaint you with the system which is designed to treat 200,000 GPD.

In addition to using the new demonstration plant for tours and educational training, it allows for the continued cultivation of granules for future AquaNereda installations.

Aqua-Aerobic staff will be available during the tour of the R&T Center and AquaNereda plant to answer any questions.

Nereda® is a registered trademark of Royal HaskoningDHV

## SEMINAR REGISTRATION

There is **no cost to you** for attending this workshop. Your airline ticket, hotel accommodations, meals and ground transportation from Chicago's O'Hare Airport to Rockford, IL and the return to O'Hare will be furnished by Aqua-Aerobic Systems, Inc. and your local Aqua-Aerobic representative.

### Airline:

Your flight will be scheduled to arrive at Chicago's O'Hare airport before 1:00 p.m. (CST) on Wednesday, July 19th. Your return flight will be scheduled 6:00 p.m. or after on Thursday, July 20th.

### Hotel:

A room reservation will be made in your name for the evening prior to the workshop at the Embassy Suites Hotel, Rockford, IL

### Transportation:

A regional bus will depart O'Hare and bring you directly to Rockford, IL. Transportation will be provided back to O'Hare airport. If driving to/from the workshop, additional information will be provided.

### Welcome Dinner:

Join us for dinner following the R&T Tours at one of Rockford's popular restaurants.

### Seminar Day:

Begin your day with a complimentary breakfast in the hotel before departing via chartered bus to our facility. A catered lunch and light snacks will be provided throughout the day during the workshop.

Availability at this seminar is limited, so early registration is recommended.

Please direct any questions you may have to **Monica Alfano** at (815) 639-4511 or email [malfano@aqua-aerobic.com](mailto:malfano@aqua-aerobic.com).



View our Introduction to the  
Aqua-Aerobic Seminar Video

*We look forward to having you as our guest!*