Advanced Theory, Operation & Troubleshooting for Anaerobic Digesters
April 11 & 12, 2017
Course Location: Watertown City Building (Lower Level Training Room)
106 Jones Street Watertown, WI 53094

Course Learning Objectives:
- Overview of the Anaerobic Digestion Process
- Identifying Design Configurations to Facilitate the Anaerobic Digestion Process
- In-depth Instructional Involving: Digester Start-Up; Operation; Ongoing Monitoring; Maintenance; Troubleshooting and Safety Considerations for Anaerobic Digestion Systems
- Interactive Anaerobic Digestion Group Tabletop Exercise
- Watertown WWTP Tour – Focusing on the Digestion Process and Equipment
- Onsite Laboratory Process Control Monitoring Analyses Demonstration

WI-DNR CONTINUING EDUCATION CREDITS AVAILABLE: 12 Hours WASTEWATER CEC

COST: Pre-Registration Only (Deadline – April 7, 2017) MEMBERS: $100.00 NON-MEMBERS: $130.00

All Event Proceeds to Benefit the Establishment of the WWOA - Southern District Scholarship / Tuition Reimbursement Fund.

Agenda: Tuesday April 11, 2017
8:30 – 9:00 Registration / Sign-In
9:00 – 10:00 Safe Operation of Anaerobic Digesters & Gas Handling Systems
10:00 – 11:00 Types of Anaerobic Systems
11:00 – 11:45 Anaerobic Digestion Process
LUNCH (Provided)
12:30 – 13:30 Monitoring Anaerobic Digester Operation
13:30 – 14:30 Methane Gas - Resource, Pollutant or Safety Hazard
14:30 – 16:00 City of Watertown WWTP Tour and Laboratory Demonstration (Located at 800 Hoffmann Drive)

Agenda: Wednesday April 12, 2017
8:30 – 9:00 Tuesday Topic Review / Question & Answer Panel
9:00 – 10:00 Digester Gas – Emissions Considerations & Reporting
10:00 – 11:30 Procedures for Anaerobic Digester Troubleshooting
LUNCH (Provided)
12:15 – 13:00 Identifying and Correcting a “Sour” Anaerobic Digester
13:00 – 14:00 Anaerobic Digester Foaming: Now What!? & Clean-Up
14:00 – 14:30 Anaerobic Digester Start Up
14:30 – 15:30 Interactive Group Tabletop Exercise

Online Credit Card Registration Available (additional 3% service fee required). Visit WWOA.org to Register!

Send reservations and make checks payable to: Marc Zimmerman, WWOA-Southern District Treasurer
Phone: 608.373.3461 City of Janesville Wastewater Utility
E-mail: zimmermanm@ci.janesville.wi.us 3300 W. Tripp Road
WWOA tax exemption certificate # ES 34848 Janesville, WI 53548–8816

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Please return a completed registration form for each individual attending the April 11 & 12, 2017 Anaerobic Digestion Technical Training Course.

INDIVIDUAL REGISTRATION:

Name: ____________________________________________________________

Address: _________________________________________________________

City: ____________________________________________________________

State: ___________ Zip Code: ___________

E-mail: __________________________________________________________

Address: _________________________________________________________

WWOA Membership #: ______________________________ NO ☐

WWOA Regional Affiliation: Southern ☐ Lake Michigan ☐ North Central ☐ Northwest ☐ Southeast ☐ West Central ☐

AMOUNT ENCLOSED (Circle One): WWOA MEMBERS: $100.00 NON-MEMBERS: $130.00
Advanced Theory, Operation & Troubleshooting for Anaerobic Digesters

Guest Presenters Scheduled to Attend:

**Glenn Smeaton** is a Koby Crabtree award recipient, with over 40 years of experience in the field of water and wastewater operator training. Glenn worked five years as senior training specialist, and at the Metro Plant (250 MGD) in Saint Paul, MN, and 12 years at Madison Metropolitan Sewerage Plant (40+ MGD) as a training manager. He holds a M.S. in water resource management from the UW Madison.

**Roy Swanke** graduated from UW Stout in vocational and technical instruction, worked as a trainer in the Jones Island plant in Milwaukee, worked at Madison Metropolitan Sewerage District as maintenance manager and later as training manager. He is currently an industrial maintenance instructor at Madison College.

**Steve Reusser** is a Wisconsin certified operator and professional engineer. Steve was responsible for plant operations and process control at Madison’s Nine Springs Wastewater Treatment Plant for almost 35 years. While at the District Steve contributed significantly to the many research and engineering projects at the plant. The plant went through six major additions and involved many changes in the activated sludge, anaerobic digestion, and cogeneration system. He recently retired from the District and has continued involvement in wastewater treatment planning with Ayres Associates in Eau Claire, WI. Throughout his career he was involved with CSWEA and WEFTEC and technology advancement. Steve received his Master’s Degree in Bio-Environmental engineering from Oklahoma State University.

**Matt Seib** is currently the Process and Research Engineer for the Madison Metropolitan Sewerage District. Matt holds a PhD in civil engineering with expertise in anaerobic digestion and anaerobic biotechnology. He is currently credentialed as a wastewater operator and ISI Envision Sustainability Professional, and serves on several Central States Water Environment Association and WEF committees. Matt has also served as a water and sanitation engineer in the Peace Corps.

**Patti Stickney** earned her B.S. in Environmental Science at UW-Green Bay in 1992. Since then, she worked as an environmental consultant on industrial air quality issues, pollution prevention, and regulatory compliance. Patti has completed projects within multiple manufacturing sectors under more than 30 different state regulatory programs. More specifically, Patti has assisted several municipal solid waste landfills and waste water treatment plants in Wisconsin with air quality permitting and compliance in relation to their biogas generation abilities.

**Dan Smeaton** graduated from UW Whitewater in chemistry 2014. Dan has been working as a chemist for Aquafix. He has worked in the field of water testing, and testing related to trouble shooting in aerobic systems, and anaerobic systems.

**Deborah Lee** holds a Master’s Degree in microbiology. She joined Aquafix in 2009 where she is heading up the Aquafix Laboratories. She is working with aquatic plants, algae, and customized water and wastewater testing.

**DISCLAIMER:** Speakers scheduled to appear subject to change without notice.

**Local Overnight Accommodations**

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<tr>
<th>Hotel Name</th>
<th>Address</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holiday Inn Express - Watertown</td>
<td>101 Aviation Way</td>
<td>920.262.1910</td>
</tr>
<tr>
<td>Heritage Inn Hotel LLC - Watertown</td>
<td>700 E. Main Street</td>
<td>920.261.5700</td>
</tr>
<tr>
<td>Comfort Suites - Johnson Creek</td>
<td>725 Paradise Lane</td>
<td>920.699.2800</td>
</tr>
<tr>
<td>Days Inn - Johnson Creek</td>
<td>W4545 Linmar Lane</td>
<td>920.699.8000</td>
</tr>
</tbody>
</table>

Hotel arrangements can be individually secured at your expense.