



2020 CATALOG OF TRAINING

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Long Island Chapter | Lower Hudson Chapter | Western Chapter



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2020 Catalog of Training Sessions

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**WATER'S
WORTH IT**



NYWEA
LEADING THE WAY IN
WATER QUALITY MANAGEMENT

P: 315-422-7811
F: 315-422-3851

Capital Chapter Training Session

February 19

Blower Technologies, Selection and Energy Evaluation

Instructors

Jennifer Kintzer, Aerzen USA

Scott Trail, Aerzen USA

Location

Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020

Contact Hours

RTC 17909-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	Welcome and introduction
8:45 am	Review of blower technologies in wastewater plant air applications <ul style="list-style-type: none">a. Positive displacement lobeb. Multistate centrifugalc. Turboblowersd. Low pressure compressore. Geared turbo
10:00 am	Break
10:15 am	Proper Selection of blower technologies based on type of application
	Machine sizing factors <ul style="list-style-type: none">f. Varying pressure applicationsg. Varying flow applicationsh. Low flow applicationsi. High flow applicationsj. Intermittent on-off applications
12:00 pm–1:00 pm	Lunch
1:00 pm	Installation factors (indoor/outdoor, footprint, machine cooling, noise)
2:15 pm	Break
2:30 pm	Life cycle cost evaluation (Energy, O&M)
3:45 pm	Q&A, review
4:00 pm	Course adjourned



P: 315-422-7811

F: 315-422-3851

April 28 Fundamentals of Occupational Chemical Exposure

This program is part of a NYS DOL HAB grant #C19006GG to the Western New York Council on Occupational Safety and Health (WNYCOSH).

Instructor Nellie J. Brown, MS, CIH

Location Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020

Contact Hours ATC 152-3438-18196, 6.0 hours; RTC 17912-20, 6 hours

Course Schedule

8:00 am Registration

8:30 am Physical hazards of chemicals: Fundamentals, terms, applications

Health hazards of chemicals: Fundamentals, terms, applications

- Routes of entry
 - o Factors affecting adverse health effects from exposure
 - o Fate of chemicals in the body

10:15 am Break

10:30 am • Routes of entry (*continued*)

- Acute and chronic exposure
 - o Occupational exposure limits
 - o Vapor pressure; estimating worst case scenario
 - o Occupational exposure limits and atypical work hours
 - o Health conditions and/or genetic predispositions

12:00 pm–1:00 pm Lunch

1:00 pm • Acute and chronic exposure (*continued*)

- Using MSDS information to compare risks and find safer alternatives
 - o Water solubility
 - o Vapor hazard ratio
 - o Flash point and explosive limits

2:15 pm Break

2:30 pm • Using MSDS information to compare risks and find safer alternatives (*continued*)

- o Hierarchy of controls: Ventilation, PPE, work practices

4:00 pm Course adjourned



P: 315-422-7811

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May 19 ~~Anaerobic Digestion Operations and Biogas Safety Training~~

Instructors

Sara Martin, PE, Critical Path Engineering Solutions
George Bevington, Barton & Loguidice
Frank DeOrio, Ramboll
Mark Greene, PhD, Ramboll

Location

Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020

Contact Hours

RTC 17908-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:15 am	Overview of anaerobic digestion
9:00 am	Operational overview of digesters and the importance of nutrients and process control
9:45 am	Break
10:00 am	Digester start-up and sour digesters
10:45 am	Codigestion
11:30 am	Design considerations
12:00 pm–12:30 pm	Lunch
12:30 pm	Case studies
1:30 pm	Biogas utilization and safety
2:30 pm	Ground breaking genetic research on anaerobic microbes
3:00 pm	Q&A; Course adjourned



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Capital Chapter Training Session

June 23

Membrane Bioreactors

Instructor

Kevin Crane, Kubota Membrane USA Corporation

Location

Brown's Brewing, 417-425 River Street, Troy, NY 12180

Contact Hours

RTC 17910-20, 4 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	MBR 101: Types, terms, treatment and components
9:15 am	Biological nutrient removal
10:00 am	Break
10:15 am	Managing MBR system performance
10:45 am	MBR operations
11:30 am	Fishbone analysis of MBRs
12:00 pm-12:45 pm	Lunch
12:45 pm	Retrofitting conventional activated sludge with MBRs
1:15 pm	Break/Travel to MBR site if needed
1:30 pm	Site visit with Q&A
3:30 pm	Course adjourned



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March 18 ~~**Green Infrastructure Maintenance**~~

Instructor Cosimo Pagano, PE, CPESC, CPSWQ, CPMSM

Location Onondaga County WEP Metro WWTP, 650 Hiawatha Boulevard West, Syracuse, NY 13204

Contact Hours PDH, 6.0 hours

Course Schedule

- 8:00 am Registration
- 8:30 am Introduction
- 8:45 am Surface filtration/infiltration systems (Bioretention/rain gardens/swales)
 - Applications
 - Performance and lessons learned
 - Maintenance and inspection procedures
- 9:45 am Porous Paving (Porous asphalt/porous concrete/pre-cast units)
 - Applications
 - Performance and lessons learned
 - Maintenance and inspection procedures
- 10:45 am Break
- 11:00 am Standard management practices (Pond/wetlands/structures)
 - Applications
 - Performance and lessons learned
 - Maintenance and inspection procedures
- 12:00 pm–1:00 pm Lunch
- 1:00 pm Sustainable landscape management (Riparian areas/plantings/conservation buffers)
 - Applications
 - Performance and lessons learned
 - Maintenance and inspection procedures
- 2:15 pm Break
- 2:30 pm Examples of maintenance for local/regional GI practices
- 3:45 pm Q&A, discussion
- 4:00 pm Course adjourned



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May 7 **Emergency Response and Crisis Management for Water and Wastewater Facilities**

This program is part of a NYS DOL HAB grant #C19006GG to the Western New York Council on Occupational Safety and Health (WNYCOSH).

Instructors Nellie J. Brown, MS, CIH
Arthur Wheaton, MLR/HR

Location Holiday Inn, 75 North Street, Auburn, NY 13021

Contact Hours ATC 152-2269-17913, 6.0 hours; RTC 17906-20, 6.0 hours

Course Schedule

(A simultaneous crisis scenario/exercise is interspersed throughout the day.)

8:00 am Registration

8:30 am Overview of crisis management

- The business case for crisis management

(Exercise: Crisis audit of your facility)

- Elements of a crisis
- Crisis planning team
- Developing the crisis management plan

10:15 am Break

10:30 am *(Exercise: Crisis preparedness – vulnerability analysis)*

- Phases of a crisis

Exercise: Signal detection

12:00 pm–1:00 pm Lunch

1:00 pm

- Planning for recovery

(Exercise: Recovery plan)

(Exercise: Identifying stakeholders)

(Exercise: Prioritizing stakeholders)

2:15 pm Break

2:30 pm Communicating during and after a crisis

- Developing core messages

(Exercise: Communicating with stakeholders and the media)

- Critical incident stress and debriefing

(Exercise: Signs of emotional impact)

- Learning from crisis

4:00 pm Course adjourned



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Central Chapter Training Session

June 22

Membrane Bioreactors (In collaboration with Genesee Valley Chapter)

Instructor

Kevin Crane, Kubota Membrane USA Corporation

Location

Waverly WWTP, 424 Cayuta Avenue, Waverly, NY 14892

Contact Hours

RTC 17910-20, 4 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	MBR 101: Types, terms, treatment and components
9:15 am	Biological nutrient removal
10:00 am	Break
10:15 am	Managing MBR system performance
10:45 am	MBR operations
11:30 am	Fishbone analysis of MBRs
12:00 pm-12:45 pm	Lunch
12:45 pm	Retrofitting conventional activated sludge with MBRs
1:15 pm	Break/Travel to MBR site if needed
1:30 pm	Site visit with Q&A
3:30 pm	Course adjourned



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Central Chapter Training Session

September 23

Anaerobic Digestion Operations and Biogas Safety Training

Instructors

Sara Martin, PE, Critical Path Engineering Solutions
George Bevington, Barton & Loguidice
Frank DeOrio, Ramboll
Mark Greene, PhD, Ramboll

Location

Utica College, 1600 Burrstone Road, Utica, NY 13502

Contact Hours

RTC 17908-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:15 am	Overview of anaerobic digestion
9:00 am	Operational overview of digesters and the importance of nutrients and process control
9:45 am	Break
10:00 am	Digester start-up and sour digesters
10:45 am	Codigestion
11:30 am	Design considerations
12:00 pm–12:30 pm	Lunch
12:30 pm	Case studies
1:30 pm	Biogas utilization and safety
2:30 pm	Ground breaking genetic research on anaerobic microbes
3:00 pm	Q&A; Course adjourned



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Genesee Valley Chapter Training Session

February 27

Emergency Response and Crisis Management for Water and Wastewater Facilities

This program is part of a NYS DOL HAB grant #C19006GG to the Western New York Council on Occupational Safety and Health (WNYCOSH).

Instructor

Nellie J. Brown, MS, CIH

Location

Wayne County Public Safety Building, 7376 Route 31, Lyons, NY 14489

Contact Hours

ATC 152-2269-17914, 6.0 hours; RTC 17906-20, 6.0 hours

Course Schedule

(A simultaneous crisis scenario/exercise is interspersed throughout the day.)

8:00 am

Registration

8:30 am

Overview of crisis management

- The business case for crisis management

(Exercise: Crisis audit of your facility)

- Elements of a crisis
- Crisis planning team
- Developing the crisis management plan

10:15 am

Break

10:30 am

(Exercise: Crisis preparedness – vulnerability analysis)

- Phases of a crisis

Exercise: Signal detection

12:00 pm–1:00 pm

Lunch

1:00 pm

- Planning for recovery

(Exercise: Recovery plan)

(Exercise: Identifying stakeholders)

(Exercise: Prioritizing stakeholders)

2:15 pm

Break

2:30 pm

Communicating during and after a crisis

- Developing core messages

(Exercise: Communicating with stakeholders and the media)

- Critical incident stress and debriefing

(Exercise: Signs of emotional impact)

- Learning from crisis

4:00 pm

Course adjourned



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May 14 **Blower Technologies, Selection and Energy Evaluation**

Instructor Jennifer Kintzer, Aerzen USA
Location VanLare WWTP Training Room, 1574 Lake Shore Boulevard, Rochester, NY 14617
Contact Hours RTC 17909-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	Welcome and introduction
8:45 am	Review of blower technologies in wastewater plant air applications <ul style="list-style-type: none"> a. Positive displacement lobe b. Multistate centrifugal c. Turboblowers d. Low pressure compressor e. Geared turbo
10:00 am	Break
10:15 am	Proper Selection of blower technologies based on type of application Machine sizing factors <ul style="list-style-type: none"> f. Varying pressure applications g. Varying flow applications h. Low flow applications i. High flow applications j. Intermittent on-off applications
12:00 pm–1:00 pm	Lunch
1:00 pm	Installation factors (indoor/outdoor, footprint, machine cooling, noise)
2:15 pm	Break
2:30 pm	Life cycle cost evaluation (Energy, O&M)
3:45 pm	Q&A, review
4:00 pm	Course adjourned



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Genesee Valley Chapter Training Session

June 22

Membrane Bioreactors (In collaboration with Central Chapter)

Instructor

Kevin Crane, Kubota Membrane USA Corporation

Location

Waverly WWTP, 424 Cayuta Avenue, Waverly, NY 14892

Contact Hours

RTC 17910-20, 4 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	MBR 101: Types, terms, treatment and components
9:15 am	Biological nutrient removal
10:00 am	Break
10:15 am	Managing MBR system performance
10:45 am	MBR operations
11:30 am	Fishbone analysis of MBRs
12:00 pm-12:45 pm	Lunch
12:45 pm	Retrofitting conventional activated sludge with MBRs
1:15 pm	Break/Travel to MBR site if needed
1:30 pm	Site visit with Q&A
3:30 pm	Course adjourned



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Long Island Chapter Training Session

March 10

Mathematics for Water and Wastewater Operators

Instructor

Robert Wither, PE

Location

Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704

Contact Hours

ATC 152-7576-17871; RTC 17907-20, 6.0 hours

Course Schedule

8:00 am

Registration

8:30 am

Basic mathematics review as it pertains to working at a treatment facility
(Real world/Applied math or what you should know)

Decimals, fractions, concentrations, % solids, understanding laboratory results
from a mathematics perspective, basic equations

10:30 am

Break

10:45 am

Using mathematics to better understand treatment plants

Calculation of unit process and unit operation organic, hydraulic and solids loadings,
familiarity with standard treatment facility terms and design ranges

12:00 pm–1:00 pm

Lunch

1:00 pm

The importance of mathematics in at a treatment facility for both
process control and proper dosing and calculation of mass quantities

Activated sludge calculations, sludge handling, flow measurement

2:30 pm

Break

2:45 pm

Attendees participation concerning their specific facility
Discussion and calculations

3:45 pm

Q&A, evaluations and wrap up

4:00 pm

Course adjourned



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May 5 **Anaerobic Digestion Operations and Biogas Safety Training**

Instructors

Sara Martin, PE, Critical Path Engineering Solutions
George Bevington, Barton & Loguidice
Frank DeOrio, Ramboll
Mark Greene, PhD, Ramboll

Location

Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704

Contact Hours

RTC 17908-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:15 am	Overview of anaerobic digestion
9:00 am	Operational overview of digesters and the importance of nutrients and process control
9:45 am	Break
10:00 am	Digester start-up and sour digesters
10:45 am	Codigestion
11:30 am	Design considerations
12:00 pm–12:30 pm	Lunch
12:30 pm	Case studies
1:30 pm	Biogas utilization and safety
2:30 pm	Ground breaking genetic research on anaerobic microbes
3:00 pm	Q&A; Course adjourned



P: 315-422-7811
F: 315-422-3851

Long Island Chapter Training Session

June 25

Membrane Bioreactors

Instructor

Kevin Crane, Kubota Membrane USA Corporation

Location

Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704

Contact Hours

RTC 17910-20, 4 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	MBR 101: Types, terms, treatment and components
9:15 am	Biological nutrient removal
10:00 am	Managing MBR system performance
10:45 am	Break
11:00 am	MBR operations
11:30 am	Fishbone analysis of MBRs
12:15 pm	Retrofitting conventional activated sludge with MBRs
12:45 pm	Q&A
	Course adjourned



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P: 315-422-7811

F: 315-422-3851

~~April 14~~ ~~Green Infrastructure Maintenance~~

Instructor Cosimo Pagano, PE, CPESC, CPSWQ, CPMSM

Location Slater Chemical Co. Firehouse, 76 Old Glenham Road, Glenham, NY 12527

Contact Hours PDH, 6.0 hours

Course Schedule

8:00 am Registration

8:30 am Introduction

8:45 am Surface filtration/infiltration systems (Bioretention/rain gardens/swales)

- Applications
- Performance and lessons learned
- Maintenance and inspection procedures

9:45 am Porous Paving (Porous asphalt/porous concrete/pre-cast units)

- Applications
- Performance and lessons learned
- Maintenance and inspection procedures

10:45 am Break

11:00 am Standard management practices (Pond/wetlands/structures)

- Applications
- Performance and lessons learned
- Maintenance and inspection procedures

12:00 pm–1:00 pm Lunch

1:00 pm Sustainable landscape management (Riparian areas/plantings/conservation buffers)

- Applications
- Performance and lessons learned
- Maintenance and inspection procedures

2:15 pm Break

2:30 pm Examples of maintenance for local/regional GI practices

3:45 pm Q&A, discussion

4:00 pm Course adjourned



P: 315-422-7811

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Lower Hudson Chapter Training Session

June 24

Membrane Bioreactors

Instructor Kevin Crane, Kubota Membrane USA Corporation

Location TBA

Contact Hours RTC 17910-20, 4 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	MBR 101: Types, terms, treatment and components
9:15 am	Biological nutrient removal
10:00 am	Break
10:15 am	Managing MBR system performance
10:45 am	MBR operations
11:30 am	Fishbone analysis of MBRs
12:00 pm-12:45 pm	Lunch
12:45 pm	Retrofitting conventional activated sludge with MBRs
1:15 pm	Break/Travel to MBR site if needed
1:30 pm	Site visit with Q&A
3:30 pm	Course adjourned



P: 315-422-7811

F: 315-422-3851

Lower Hudson Chapter Training Session

October 20 **Anaerobic Digestion Operations and Biogas Safety Training**

Instructors

Sara Martin, PE, Critical Path Engineering Solutions
George Bevington, Barton & Loguidice
Frank DeOrio, Ramboll
Mark Greene, PhD, Ramboll

Location

Yonkers Joint WWTP, 1 Fernbrook Street, Yonkers, NY 10705

Contact Hours

RTC 17908-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:15 am	Overview of anaerobic digestion
9:00 am	Operational overview of digesters and the importance of nutrients and process control
9:45 am	Break
10:00 am	Digester start-up and sour digesters
10:45 am	Codigestion
11:30 am	Design considerations
12:00 pm–12:30 pm	Lunch
12:30 pm	Case studies
1:30 pm	Biogas utilization and safety
2:30 pm	Ground breaking genetic research on anaerobic microbes
3:00 pm	Q&A; Course adjourned



P: 315-422-7811

F: 315-422-3851

Lower Hudson Chapter Training Session

November 4

Mathematics for Water and Wastewater Operators

Instructor

Robert Wither, PE

Location

Wallkill Golf Club, 40 Sands Road, Middletown, NY 10941

Contact Hours

ATC 152-7576-17873; RTC 17907-20, 6.0 hours

Course Schedule

8:00 am

Registration

8:30 am

Basic mathematics review as it pertains to working at a treatment facility
(Real world/Applied math or what you should know)

Decimals, fractions, concentrations, % solids, understanding laboratory results
from a mathematics perspective, basic equations

10:30 am

Break

10:45 am

Using mathematics to better understand treatment plants
Calculation of unit process and unit operation organic, hydraulic and solids loadings,
familiarity with standard treatment facility terms and design ranges

12:00 pm–1:00 pm

Lunch

1:00 pm

The importance of mathematics in at a treatment facility for both
process control and proper dosing and calculation of mass quantities
Activated sludge calculations, sludge handling, flow measurement

2:30 pm

Break

2:45 pm

Attendees participation concerning their specific facility
Discussion and calculations

3:45 pm

Q&A, evaluations and wrap up

4:00 pm

Course adjourned



P: 315-422-7811

F: 315-422-3851

Western Chapter Training Session

January 28

Anaerobic Digestion Operations and Biogas Safety Training

Instructors

Sara Martin, PE, Critical Path Engineering Solutions
George Bevington, Barton & Loguidice
Frank DeOrio, Ramboll
Mark Greene, PhD, Ramboll

Location

Protocol Restaurant, 6766 Transit Road, Williamsville, NY 14221

Contact Hours

RTC 17908-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:15 am	Overview of anaerobic digestion
9:00 am–9:45 am	Operational overview of digesters and the importance of nutrients and process control
9:45 am	Break
10:00 am	Digester start-up and sour digesters
10:45 am	Codigestion
11:30 am	Design considerations?
12:00 pm–12:30 pm	Lunch
12:30 pm	Case studies
1:30 pm	Biogas utilization and safety
2:30 pm	Ground breaking genetic research on anaerobic microbes
3:00 pm	Q&A
	Course adjourned



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Western Chapter Training Session

June 17

Confined Space Awareness

This program is part of a NYS DOL HAB grant #C19006GG to the Western New York Council on Occupational Safety and Health (WNYCOSH).

Instructor

Nellie J. Brown, MS, CIH

Location

TBD, Allegany or Cattaraugus County

Contact Hours

ATC, pending; RTC 17911-20, 6 hours

Course Schedule

8:00 am	Registration
8:30 am	Overview of the problem: What is a confined space? How serious is the issue? Exercise: Case History A
	Requirements of the standard; permit-required spaces Exercise: Case History B
	Types of confined space hazards-categories Exercise: Case History C
10:15 am-10:30 am	Break
10:30 am	Types of confined space hazards-in-depth Exercise: Case History D
	Protection and prevention by permit entry procedures Exercise: Case History E
	Protection and prevention by permit entry procedures (continued) Exercise: Case History F
12:00 pm-1:00 pm	Lunch
1:00 pm	Small groups exercise: Accident scenarios-identify hazards and appropriate permit program hazard control procedures.
2:15 pm-2:30 pm	Break
2:30 pm	Rescue procedures Basics Small groups exercise: "What do you do if ...?"
	Air Monitoring Basics Small groups exercise: "What's happening here?"
4:00 pm	Course adjourned



P: 315-422-7811

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Western Chapter Training Session

July 14

Mathematics for Water and Wastewater Operators

Instructor

Robert Wither, PE

Location

Fredonia Technology Incubator, 214 Central Avenue, Dunkirk, NY 14048

Contact Hours

ATC 152-7576-17872, 6.0 hours; RTC 17907-20, 6.0 hours

Course Schedule

8:00 am

Registration

8:30 am

Basic mathematics review as it pertains to working at a treatment facility
(Real world/Applied math or what you should know)

Decimals, fractions, concentrations, % solids, understanding laboratory results
from a mathematics perspective, basic equations

10:30 am

Break

10:45 am

Using mathematics to better understand treatment plants

Calculation of unit process and unit operation organic, hydraulic and solids loadings,
familiarity with standard treatment facility terms and design ranges

12:00 pm–1:00 pm

Lunch

1:00 pm

The importance of mathematics in at a treatment facility for both
process control and proper dosing and calculation of mass quantities
Activated sludge calculations, sludge handling, flow measurement

2:30 pm

Break

2:45 pm

Attendees participation concerning their specific facility
Discussion and calculations

3:45 pm

Q&A, evaluations and wrap up

4:00 pm

Course adjourned



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Western Chapter Training Session

November 17 **Blower Technologies, Selection and Energy Evaluation**

Instructor Jennifer Kintzer, Aerzen USA

Location TBD, Lockport, NY 14094

Contact Hours RTC 17909-20, 6.0 hours; PDH, 6.0 hours

Course Schedule

8:00 am	Registration
8:30 am	Welcome and introduction
8:45 am	Review of blower technologies in wastewater plant air applications <ul style="list-style-type: none">a. Positive displacement lobeb. Multistate centrifugalc. Turboblowersd. Low pressure compressore. Geared turbo
10:00 am	Break
10:15 am	Proper Selection of blower technologies based on type of application Machine sizing factors <ul style="list-style-type: none">f. Varying pressure applicationsg. Varying flow applicationsh. Low flow applicationsi. High flow applicationsj. Intermittent on-off applications
12:00 pm–1:00 pm	Lunch
1:00 pm	Installation factors (indoor/outdoor, footprint, machine cooling, noise)
2:15 pm	Break
2:30 pm	Life cycle cost evaluation (Energy, O&M)
3:45 pm	Q&A, review
4:00 pm	Course adjourned



P: 315-422-7811

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Locations of Training Sessions

CAPITAL CHAPTER

- **Brown's Brewing**
417-425 River Street, Troy, NY 12180
 - **Saratoga County Fire Training Center**
6010 County Farm Road, Ballston Spa, NY 12020
-

CENTRAL CHAPTER

- **Holiday Inn**
75 North Street, Auburn, NY 13021
 - **Onondaga County Water Environment Protection**
650 Hiawatha Boulevard West, Syracuse, NY 13204
 - **Utica College, Economic Crime & Justice Building, Carbone Family Auditorium**
1600 Burrstone Road, Utica, NY 13502
 - **Waverly WWTP**
424 Cayuta Avenue, Waverly, NY 14892
-

GENESEE VALLEY CHAPTER

- **Van Lare WWPT Training Room**
1574 Lake Shore Boulevard, Rochester, NY 14617
 - **Waverly WWTP**
424 Cayuta Avenue, Waverly, NY 14892
 - **Wayne County Public Safety Building**
7376 Route 31, Lyons, NY 14489
-

LONG ISLAND CHAPTER

- **Bergen Point WWPT**
Southwest Sewer District #3, 600 Bergen Avenue, Babylon, NY 12020
-

LOWER HUDSON CHAPTER

- **Slater Chemical Fire Co.**
76 Old Glenham Road, Glenham, NY 12527
 - **Wallkill Golf Club**
40 Sands Road, Middletown, NY 10941
 - **Yonkers Joint WWTP**
1 Fernbrook Street, Yonkers, NY 10705
-

WESTERN CHAPTER

- **TBD**
Allegany or Cattaraugus County
 - **Fredonia Technology Incubator**
214 Central Avenue, Dunkirk, NY 14048
 - **Niagara County Fire Training Center**
TBD, Lockport, NY 14094
 - **Protocol Restaurant**
6766 Transit Road, Williamsville, NY 14221
-

LOGISTICS

Registration confirmation, directions and other pertinent information will be mailed or e-mailed to the address on the registration form one week prior to each workshop.

Cancellations must be received 10 days in advance of event. Refunds are subject to a \$20 administrative fee.



NYWEA
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WATER QUALITY MANAGEMENT

P: 315-422-7811

F: 315-422-3851

Faculty and Course Titles

- **Anaerobic Digestion Operations and Biogas Safety Training**

Sara Martin, PE, Critical Path Engineering Solutions

Sara Martin is a licensed professional engineer with over 20 years of experience in project development, management and design of various municipal and industrial water, wastewater and utilities projects. Ms. Martin attended Clarkson University where she obtained a Bachelor of Science degree in Civil/Environmental Engineering. She is the owner of Critical Path Engineering Solutions, a Woman-Owned Enterprise specializing in water, wastewater and general infrastructure projects.

George Bevington, Barton & Loguidice

George Bevington has over 39 years of experience in the environmental field and possesses a NYS Grade 4A Wastewater Operator license. He has a Bachelor of Science in Civil Engineering from Rochester Institute of Technology in Rochester, NY. Mr. Bevington is employed by Barton and Loguidice serving as a Senior Project Manager in their wastewater division, providing wastewater consulting services to various facilities, specializing in anaerobic digestion of high-strength waste and CHP.

Frank DeOrio, Ramboll

Frank DeOrio is a Senior Technical Manager with Ramboll. He has over 40 years of experience in municipal and industrial wastewater treatment including biological and physical-chemical processes, biosolids management, effluent disinfection and anaerobic digestion. He maintains a Professional Wastewater Operator Certification by the Association of Boards of Certification as well as Wastewater Operator Certifications in the states of GA, NY, NJ, PA and MA.

Mark Greene, PhD, Ramboll

Dr. Mark Greene is a Subject Matter Expert at Ramboll. He is experienced in the areas of municipal and industrial wastewater treatment, anaerobic digestion for biosolids and high-strength industrial wastewater, as well as environmental process research and development. He has performed original research, project management, technical guidance, feasibility evaluations, treatability studies, field demonstrations, full-scale start-ups, computer modeling and process troubleshooting.

- **Blower Technologies, Selection, and Energy Evaluation**

Jennifer Kintzer, PE, Aerzen USA

Jennifer Kintzer is a professional engineer and manager at Aerzen USA with demonstrated ability in planning, design, and construction of water and wastewater facilities with 27 years of experience in the field. She is a sales professional with the ability to effectively communicate with engineers and utility owners and operators concerning treatment equipment for water and wastewater facilities. Ms. Kintzer is a certified Professional Engineer and Wastewater Treatment Plant Operator in the Commonwealth of Pennsylvania. She holds a Bachelor of Science degree in Civil Engineering Technology from The University of Pittsburgh at Johnstown. Ms. Kintzer is a member of the American Society of Civil Engineers, Society of Women Engineers, Eastern Pennsylvania Water Pollution Control Operators Association, American Water Works Association, Water Environment Federation, and a member of the Editorial Board of Pennsylvania Water Environment Association.

- **Confined Space Awareness**

- **Fundamentals of Occupational Chemical Exposure**

- **Emergency Response and Crisis Management for Water and Wastewater Facilities**

Nellie J. Brown, MS, CIH, Director of Workplace Health and Safety Programs for the Worker Institute at Cornell University's School of Industrial and Labor Relations, Ithaca, NY

Nellie Brown is a certified industrial hygienist, biologist and chemist. Ms. Brown earned her Master's degree in a multidisciplinary program in natural sciences and applied science from the SUNY College at Buffalo. She has experience as a licensed wastewater treatment plant operator and has been trained as a lead inspector, an HIV/AIDs test counselor and in mold investigations and site assessments.

Arthur Wheaton

Arthur Wheaton is the Director of Western NY Labor and Environmental Programs for Cornell University's School of Industrial and Labor Relations. Mr. Wheaton has a special interest in health and safety programs and committees. His specialty is integrating lean or high performance principles with health and safety programs to provide a safe working environment and enhance quality, productivity and morale. He has a master of science degree in labor relations and human resources from Michigan State University. Mr. Wheaton also holds a bachelor of science degree in Social Science Pre-Law in Economics, History and Political Science from Michigan State University.



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- **Green Infrastructure Maintenance**

- **Cosimo Pagano, Environmental Design & Research (EDR)**

- Cosimo Pagano is a Project Manager with Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR). Mr. Pagano has more than 12 years of experience in the study, design and construction phases of wastewater, stormwater, environmental engineering projects. He is a NYS certified Professional Engineer (PE), Certified Professional in Erosion and Sediment Control (CPESC), Certified Professional in Stormwater Quality (CPSWQ), and a Certified Professional in Municipal Stormwater Management (CPMSM). Mr. Pagano holds a Bachelor of Science degree in Environmental/Civil Engineering from the State University of New York College of Environmental Science and Forestry (SUNY-ESF).

- **Mathematics for Water and Wastewater Operators**

- **Robert Wither**

- Robert Wither recently retired after over 34 years of service to the NYS Department of Environmental Conservation in the Bureau of Water Permits, Division of Water. He is a licensed Professional Engineer in New York State. He has a Bachelor of Science degree in Chemical Engineering from Rensselaer Polytechnic Institute, Troy, NY, and is the recent past president of NYWEA. Mr. Wither has extensive experience in permit writing, treatment technology, technical assistance, training, operator certification and data management.

- **Membrane Bioreactors**

- **Kevin Crane, Kubota Membrane USA Corporation**

- Kevin Crane is Regional Sales Manager for Kubota Membrane USA Corporation. He is responsible for managing sales activities related to advanced wastewater treatment capital equipment sales to municipalities and end users. He interfaces with consulting engineers, regulators and contractors to ensure that projects are delivered to meet permit requirements, specs and budget constraints. He

- has nearly 20 years of experience in the water/wastewater industry in both the public and private sectors. Mr. Crane holds two certifications – California Grade V Wastewater Treatment Plant Operator and Texas Class A Wastewater Treatment Plant Operator.



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NYWEA MEC 2020 Training Calendar

DATE	CHAPTER	SESSION / LOCATION
January 28, 2020	Western	Anaerobic Digestion Operations and Biogas Safety Training Protocol Restaurant, 6766 Transit Road, Williamsville, NY 14221
February 3-5, 2020	NYWEA	92nd Annual Meeting & Exhibition New York City Marriott Marquis
February 19, 2020	Capital	Blower Technologies, Selection and Energy Evaluation Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020
February 27, 2020	Genesee Valley	Emergency Response and Crisis Management for Water and Wastewater Facilities Wayne County Public Safety Building, 7376 Route 31, Lyons, NY 14489
March 10, 2020	Long Island	Mathematics for Water and Wastewater Operators Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704
March 18, 2020 POSTPONED, DATE TBA	Central	Green Infrastructure Maintenance OCDWEP Metro WWTP, 650 Hiawatha Boulevard West, Syracuse, NY 13204
April 14, 2020 POSTPONED, DATE TBA	Lower Hudson	Green Infrastructure Maintenance Slater Chemical Fire Co., 76 Old Glenham Road, Glenham, NY 12527
April 28, 2020 POSTPONED, DATE TBA	Capital	Fundamentals of Occupational Chemical Exposure, Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020
May 5, 2020 POSTPONED, DATE TBA	Long Island	Anaerobic Digestion Operations and Biogas Safety Training Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704
May 7, 2020 POSTPONED, DATE TBA	Central	Emergency Response and Crisis Management for Water and Wastewater Facilities Auburn Holiday Inn, 75 North Street, Auburn, NY 13021
May 14, 2020 POSTPONED, DATE TBA	Genesee Valley	Blower Technologies, Selection and Energy Evaluation VanLare WWTP, 1574 Lake Shore Boulevard, Rochester, NY 14617
May 19, 2020 POSTPONED, DATE TBA	Capital	Anaerobic Digestion Operations and Biogas Safety Training Saratoga County Fire Training Center, 6010 County Farm Road, Ballston Spa, NY 12020
June 8-10, 2020	NYWEA	Spring Technical Meeting & Exhibition The Hyatt Regency Long Island, Hauppauge, NY 11788
June 17, 2020	Western	Confined Space Awareness TBD, Allegany or Cattaraugus County
June 22, 2020	Central/Genesee Valley	Membrane Bioreactors Waverly WWTP, 424 Cayuta Avenue, Waverly, NY 14892
June 23, 2020	Capital	Membrane Bioreactors Brown's Brewing, 417-425 River Street, Troy, NY 12180
June 24, 2020	Lower Hudson	Membrane Bioreactors TBA
June 25, 2020	Long Island	Membrane Bioreactors Bergen Point WWTP, 600 Bergen Avenue, Babylon, NY 11704
July 14, 2020	Western	Mathematics for Water and Wastewater Operators Fredonia Tech Incubator, 214 Central Avenue, Dunkirk, NY 14048
September 23, 2020	Central	Anaerobic Digestion Operations and Biogas Safety Training Utica College, 1600 Burrstone Road, Utica, NY 13502
October 20, 2020	Lower Hudson	Anaerobic Digestion Operations and Biogas Safety Training Yonkers Joint WWTP, 1 Fernbrook Street, Yonkers, NY 10705
November 4, 2020	Lower Hudson	Mathematics for Water and Wastewater Operators Wallkill Golf Club, 40 Sands Road, Middletown, NY 10941
November 17, 2020	Western	Blower Technologies, Selection and Energy Evaluation TBD, Lockport, NY 14094

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TRAINING SESSIONS REGISTRATION | PLEASE PRINT. ONE FORM COMPLETED PER INDIVIDUAL.

Name _____ NYWEA Member Yes No
[Non-member registration includes 1-year Affiliate Membership.]
 Certificate/License # _____ Wastewater Water Professional Engineer
 Company / Affiliation _____
 Mailing Address _____ City _____ State _____ Zip _____
 Home Address Business Address (Email or mail confirmations with directions will be sent 1 week prior to event.)
 Phone (_____) _____ - _____ Email (required) _____

DATE	2020 SEMINAR TITLE	MEMBER	NON-MEMBER	TOTAL
Capital Chapter Training Sessions				
<input type="checkbox"/> February 19, 2020	Blower Technologies, Selection and Energy Evaluation	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> April 28, 2020	Fundamentals of Occupational Chemical Exposure**	\$40.00	\$40.00	\$ _____
<input type="checkbox"/> May 19, 2020	Anaerobic Digestion Operations and Biogas Safety Training	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> June 23, 2020	Membrane Bioreactors	\$60.00	\$145.00	\$ _____
Central Chapter Training Sessions				
<input type="checkbox"/> March 18, 2020	Green Infrastructure Maintenance	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> May 7, 2020	Emergency Response and Crisis Management**	\$40.00	\$40.00	\$ _____
<input type="checkbox"/> June 22, 2020	Membrane Bioreactors (in partnership with Genesee Chapter)	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> September 23, 2020	Anaerobic Digestion Operations and Biogas Safety Training	\$60.00	\$145.00	\$ _____
Genesee Valley Chapter Training Sessions				
<input type="checkbox"/> February 27, 2020	Emergency Response and Crisis Management**	\$40.00	\$40.00	\$ _____
<input type="checkbox"/> May 14, 2020	Blower Technologies, Selection and Energy Evaluation	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> June 22, 2020	Membrane Bioreactors (in partnership with Central Chapter)	\$60.00	\$145.00	\$ _____
Long Island Chapter Training Sessions				
<input type="checkbox"/> March 10, 2020	Mathematics for Water and Wastewater Operators	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> May 5, 2020	Anaerobic Digestion Operations and Biogas Safety Training	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> June 25, 2020	Membrane Bioreactors	\$60.00	\$145.00	\$ _____
Lower Hudson Chapter Training Sessions				
<input type="checkbox"/> April 14, 2020	Green Infrastructure Maintenance	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> June 24, 2020	Membrane Bioreactors	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> October 20, 2020	Anaerobic Digestion Operations and Biogas Safety Training	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> November 4, 2020	Mathematics for Water and Wastewater Operators	\$60.00	\$145.00	\$ _____
Western Chapter Training Sessions				
<input type="checkbox"/> January 28, 2020	Anaerobic Digestion Operations and Biogas Safety Training	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> June 17, 2020	Confined Space Awareness**	\$40.00	\$40.00	\$ _____
<input type="checkbox"/> July 14, 2020	Mathematics for Water and Wastewater Operators	\$60.00	\$145.00	\$ _____
<input type="checkbox"/> November 17, 2020	Blower Technologies, Selection and Energy Evaluation	\$60.00	\$145.00	\$ _____

** Program is part of a NYS DOL HAB grant #C19006GG to WNYCOSH **

TOTAL \$ _____

PLEASE FILL OUT PAYMENT INFORMATION: (mail to NYWEA, or fax to 315-422-3851)

Payment Options Check # _____ Credit Card MC VISA AMEX Voucher

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Signature _____

Company _____

Contact Person _____

Address _____ E-Mail (required) _____

City _____ State _____ Zip _____ Telephone _____

Date _____ Authorized Signature _____



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