



2012 CATALOG OF TRAINING

Sponsored by the Member Education Committee 2/1/12



**Build Your
Knowledge Base**

- Western Chapter**
- Capital Chapter**
- Lower Hudson Chapter**
- Genesee Chapter**
- Central Chapter**
- Long Island Chapter**
- Metropolitan Chapter**



New York Water Environment Association
525 Plum Street, Suite 102, Syracuse, New York 13204
www.nywea.org

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Western Chapter Training Sessions

January 12, 2012

Pump Hydraulics, Selection, Sizing and Controls

Location: Protocol Restaurant, Williamsville

Workshop Developer: Koester Associates

Workshop Faculty: Mark Koester, P.E.; Tom Whetham, P.E., Koester Associates

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Hydraulics and pump curve refresher course

Vacuum primed, suction lift, and flooded suction pump considerations

Break (15 minutes)

Selecting the right solids handling pump, overview of chopper progressive cavity, rotary lobe, plunger and centrifugal pump technologies

Lunch

Continued: Selecting the right solids handling pump

Grinder pumping system, sizing and selection

Break (15 minutes)

Pump control system technologies and considerations

Course wrap up, Q&A



September 12, 2012

Nutrient Removal Technology and Process Optimization

Location: Protocol Restaurant, Williamsville

Workshop Developer: CRA Infrastructure & Engineering, Inc.

Workshop Faculty: Dan Bentivogli, Lori Lehnen, P.E., Chris Martin, P.E., Bryan Tanner

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Topics to be Discussed:

Effect of nutrients on receiving waters

Regulations and standards

Principles of biological nitrogen removal

Principles of biological phosphorus removal

Principles of chemical phosphorus removal

Overview of nutrient removal technologies

Microbiological evaluation

Chemical evaluation and optimization techniques

Role of instrumentation and treatment in optimization

Physical evaluation techniques

Application of evaluation and optimization approaches (interactive component)

Implementation considerations and lessons learned



This workshop will introduce nutrient-based water quality issues and nutrient removal principles as well as demonstrate techniques for evaluating and optimizing nutrient removal. Attendees can expect to participate in small group breakout sessions and interactive demonstrations to reinforce lecture-based learning.

November 29, 2012

Sustainability

Location: Protocol Restaurant, Williamsville

Workshop Developer: Malcolm Pirnie the Water Division of ARCADIS, NYSERDA, GHD, et al

Workshop Faculty: Silvia Marpicati, P.E., Malcolm Pirnie the Water Division of ARCADIS; Wayne McFarland, P.E., DEE, GHD Consultants; Ed Evans, Applied Proactive; Tom Moore, C.E.M., CHP Clean Energy

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Sustainability and Energy Conservation: Silvia Marpicati

- Concept of Sustainability
- Energy Use at a WWTP
- Factors Affecting Energy Use
- Operational and Capital Improvements

Renewable Energy/ “Zero Net” Energy Facility: Silvia Marpicati

- Wind, PV, hydro, geothermal on-site generation
- Anaerobic digestion and CHP, co-digestion

Break

Renewable Energy, *continued*

Case Studies

NYSERDA Tools and Materials: Silvia Marpicati

- Brief introduction to the, NYSERDA Focus Program, Best Practices Handbook,
- Benchmarking and Payback Tools
- Microturbines and Effluent Heat Recovery, Wayne McFarland, GHD
- Efficiency and head required
- Effluent temperature

Lunch

Solar Power: Wayne McFarland, GHD

- Types – advantages and disadvantages
- Motor Systems Program: Ed Evans, Applied Proactive
- Overview of the Motor Replacement Program

Break

CHP Clean Energy: Tom Moore, CHP Clean Energy

Seminar review (course evaluations), Q&A



Genesee Chapter Training Sessions

August 15, 2012

Post-Nutrient Removal Upgrade Operations

Location: Rochester, Van Lare Plant

Workshop Developer: O'Brien & Gere Engineers, Inc.

Workshop Faculty: Mark Greene, Ph.D., Frank DeOrio

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:0 am–8:30 am Registration)

This class is for plant operators and managers who wish to gain insight into the expected performance of newly upgraded nutrient-removal plants. The agenda will consist of the following sessions:

- Morning I – Suspended Growth Biological Nutrient Removal Systems
- Break
- Morning II – Fixed Film Biological Nutrient Removal Systems
- Lunch
- Afternoon I – Nutrient Removal Programs (Limits to Costs)
- Break
- Afternoon II – New/Innovative NR Technologies

October 3, 2012

Nitrification / Denitrification

Location: Rochester, Van Lare Plant

Workshop Developer: Tim Miller, Grade 4A Wastewater Treatment Plant Operator, retired from NYS DEC

Workshop Faculty: Tim Miller

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

The workshop focuses on an operator's perspective of nitrification and denitrification using activated sludge. We will cover the advantages and challenges of implementing either or both processes at your plant. The workshop is interactive with several case histories and hopefully your experiences.

Programs Runs: 8:15 am–4:00 pm (7:45 am–8:15 am Registration)

- Forms of Nitrogen
- Nitrification Fundamentals
- Break
- Nitrification Case History
- Nitrification Impacts on Secondary Clarifiers
- Lunch
- Denitrification Fundamentals
- Denitrification Operating Strategies
- Break
- Practical Steps to Enhance Nitrification/Denitrification
- Final Case History



November 7, 2012

Nutrient Removal Technology and Process Optimization

Location: Wayne County Emergency Management Facility, Lyons

Workshop Developer: CRA Infrastructure & Engineering, Inc.

Workshop Faculty: Dan Bentivogli, Lori Lehnen, P.E., Chris Martin, P.E., Bryan Tanner

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Topics to be Discussed:

- Effect of nutrients on receiving waters
- Regulations and standards
- Principles of biological nitrogen removal
- Principles of biological phosphorus removal
- Principles of chemical phosphorus removal
- Overview of nutrient removal technologies
- Microbiological evaluation
- Chemical evaluation and optimization techniques
- Role of instrumentation and treatment in optimization
- Physical evaluation techniques
- Application of evaluation and optimization approaches (interactive component)
- Implementation considerations and lessons learned

This workshop will introduce nutrient-based water quality issues and nutrient removal principles as well as demonstrate techniques for evaluating and optimizing nutrient removal. Attendees can expect to participate in small group breakout sessions and interactive demonstrations to reinforce lecture-based learning.



Central Chapter Training Sessions

March 15, 2012

Confined Space Awareness

Location: Arrowhead Lodge, Oneida Shores Park (9248 McKinley Ridge Road, Brewerton NY)

Workshop Developer: Cornell University – ILR/Workplace Health & Safety Program

Workshop Faculty: Nellie J. Brown, M.S., C.I.H. Director

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending) and Water ATCs (applied for)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

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

Break

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

Lunch

Small groups exercise: Accident scenarios – identify hazards and appropriate procedures

Break

Rescue procedures basics

Small groups exercise: “What do you do if ...?”

Air Monitoring Basics

Small groups exercise: “What’s happening here?”

End of program

Note: This program is funded in part by the NYS Department of Labor HAB Grant to the Western NY Council on Occupational Safety and Health.



April 25, 2012

Pump Hydraulics, Selection, Sizing and Controls

Location: Chenango at Town Hall

Workshop Developer: Koester Associates

Workshop Faculty: Mark Koester, P.E.; Tom Whetham, P.E., Koester Associates

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Hydraulics and pump curve refresher course

Vacuum primed, suction lift, and flooded suction pump considerations

Break (15 minutes)

Selecting the right solids handling pump, overview of chopper progressive cavity, rotary lobe, plunger and centrifugal pump technologies

Lunch

Continued: Selecting the right solids handling pump

Grinder pumping system, sizing and selection

Break (15 minutes)

Pump control system technologies and considerations

Course wrap up, Q&A



June 13, 2012

Nutrient Removal Technology and Process Optimization

Location: Ilion at Francesca's

Workshop Developer: CRA Infrastructure & Engineering, Inc.

Workshop Faculty: Dan Bentivogli, Lori Lehnen, P.E., Chris Martin, P.E., Bryan Tanner

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Topics to be Discussed:

Effect of nutrients on receiving waters

Regulations and standards

Principles of biological nitrogen removal

Principles of biological phosphorus removal

Principles of chemical phosphorus removal

Overview of nutrient removal technologies

Microbiological evaluation

Chemical evaluation and optimization techniques

Role of instrumentation and treatment in optimization

Physical evaluation techniques

Application of evaluation and optimization approaches (interactive component)

Implementation considerations and lessons learned

This workshop will introduce nutrient-based water quality issues and nutrient removal principles as well as demonstrate techniques for evaluating and optimizing nutrient removal. Attendees can expect to participate in small group breakout sessions and interactive demonstrations to reinforce lecture-based learning.

Capital Chapter Training Sessions

March 23, 2012

Nitrification / Denitrification

Location: Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY

Workshop Developer: Tim Miller, Grade 4A Wastewater Treatment Plant Operator, retired from NYS DEC

Workshop Faculty: Tim Miller

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

The workshop focuses on an operator's perspective of nitrification and denitrification using activated sludge. We will cover the advantages and challenges of implementing either or both processes at your plant. The workshop is interactive with several case histories and hopefully your experiences.

Programs Runs: 8:15 am–4:00 pm (7:45 am–8:15 am Registration)

Forms of Nitrogen

Nitrification Fundamentals

Break

Nitrification Case History

Nitrification Impacts on Secondary Clarifiers

Lunch

Denitrification Fundamentals

Denitrification Operating Strategies

Break

Practical Steps to Enhance Nitrification/Denitrification

Final Case History



April 19, 2012

Confined Space Awareness

Location: Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY

Workshop Developer: Cornell University – ILR/Workplace Health & Safety Program

Workshop Faculty: Nellie J. Brown, M.S., C.I.H. Director

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending) and Water ATCs (applied for)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

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

Break

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

Lunch

Small groups exercise: Accident scenarios – identify hazards and appropriate procedures

Break

Rescue procedures basics

Small groups exercise: “What do you do if ...?”

Air Monitoring Basics

Small groups exercise: “What’s happening here?”

End of program

Note: This program is funded in part by the NYS Department of Labor HAB Grant to the Western NY Council on Occupational Safety and Health.

May 18, 2012

Disinfection Technology and Pumps

Location: Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY

Workshop Developer: Severn Trent Services and Siewert Equipment

Workshop Faculty: George Solymosi

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending) and Water ATCs (applied for)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Engineering considerations – gas feed and instrumentation systems – Do’s and Don’t’s

On-site sodium hypochlorite generation

Sodium hypochlorite feed pumps

Sodium hypochlorite usage – problems and solutions

Ultraviolet disinfection

Discussion, Q&A



Lower Hudson Chapter Training Sessions

April 11, 2012

Sustainability

Location: Wallkill at Golf Course

Workshop Developer: Malcolm Pirnie the Water Division of ARCADIS, and others

Workshop Faculty: Silvia Marpicati, P.E., Malcolm Pirnie the Water Division of ARCADIS; Wayne McFarland, P.E., DEE, GHD Consultants; Ed Evans, Applied Proactive; Tom Moore, C.E.M., CHP Clean Energy

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Sustainability and Energy Conservation: Silvia Marpicati

- Concept of Sustainability
- Energy Use at a WWTP
- Factors Affecting Energy Use
- Operational and Capital Improvements

Renewable Energy/ “Zero Net” Energy Facility: Silvia Marpicati

- Wind, PV, hydro, geothermal on-site generation
- Anaerobic digestion and CHP, co-digestion

Break

Renewable Energy, *continued*

Case Studies

NYSERDA Tools and Materials: Silvia Marpicati

- Brief introduction to the, NYSERDA Focus Program, Best Practices Handbook,
- Benchmarking and Payback Tools
- Microturbines and Effluent Heat Recovery, Wayne McFarland, GHD
- Efficiency and head required
- Effluent temperature

Lunch

Solar Power: Wayne McFarland, GHD

- Types – advantages and disadvantages
- Motor Systems Program: Ed Evans, Applied Proactive
- Overview of the Motor Replacement Program

Break

CHP Clean Energy: Tom Moore, CHP Clean Energy

Seminar review (course evaluations), Q&A



June 20, 2012

Confined Space Awareness

Location: Fishkill at IBM

Workshop Developer: Cornell University – ILR/Workplace Health & Safety Program

Workshop Faculty: Nellie J. Brown, M.S., C.I.H. Director

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending) and Water ATCs (applied for)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

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

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Break

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

Lunch

Small groups exercise: Accident scenarios – identify hazards and appropriate procedures

Break

Rescue procedures basics

Small groups exercise: “What do you do if ...?”

Air Monitoring Basics

Small groups exercise: “What’s happening here?”

End of program

Note: This program is funded in part by the NYS Department of Labor HAB Grant to the Western NY Council on Occupational Safety and Health.



October 24, 2012

Nutrient Removal Technology and Process Optimization

Location: Monticello at Firehouse

Workshop Developer: CRA Infrastructure & Engineering, Inc.

Workshop Faculty: Dan Bentivogli, Lori Lehnen, P.E., Chris Martin, P.E., Bryan Tanner

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Topics to be Discussed:

- Effect of nutrients on receiving waters
- Regulations and standards
- Principles of biological nitrogen removal
- Principles of biological phosphorus removal
- Principles of chemical phosphorus removal
- Overview of nutrient removal technologies
- Microbiological evaluation
- Chemical evaluation and optimization techniques
- Role of instrumentation and treatment in optimization
- Physical evaluation techniques
- Application of evaluation and optimization approaches (interactive component)
- Implementation considerations and lessons learned

This workshop will introduce nutrient-based water quality issues and nutrient removal principles as well as demonstrate techniques for evaluating and optimizing nutrient removal. Attendees can expect to participate in small group breakout sessions and interactive demonstrations to reinforce lecture-based learning.



Metropolitan Chapter Training Sessions

November 28, 2012

Pump Hydraulics, Selection, Sizing and Controls

Location: Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY

Workshop Developer: Koester Associates

Workshop Faculty: Mark Koester, P.E.; Tom Whetham, P.E., Koester Associates

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Hydraulics and pump curve refresher course

Vacuum primed, suction lift, and flooded suction pump considerations

Break (15 minutes)

Selecting the right solids handling pump, overview of chopper progressive cavity, rotary lobe, plunger and centrifugal pump technologies

Lunch

Continued: Selecting the right solids handling pump

Grinder pumping system, sizing and selection

Break (15 minutes)

Pump control system technologies and considerations

Course wrap up, Q&A



December 5, 2012

Fundamentals of Wastewater Asset Management

Location: Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY

Workshop Developer: Barton & Loguidice Inc.

Workshop Faculty: Timothy Taber, P.E., BCEE

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Introduction to Asset Management

Development of Asset Inventory

Break (15 minutes)

Assess Condition, Performance, Failure Modes

Gauge Asset Life and Value

Set Target Level of Service

Lunch

Determine Risk (criticality)

Optimize Operation and Maintenance Decisions

Develop Capital Improvement Program

Determine Funding Requirements

Break (15 minutes)

Develop Asset Management Plan

Case Studies of NYS Asset Management Plans and Discussion

This training introduces you to the fundamental principles of asset management and how they are applied to infrastructure asset investment decision making. Attendees will learn methodologies and work with tools that can be applied to their infrastructure for the development of an Asset Management Plan.

December 12, 2012

Sustainability

Location: Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY

Workshop Developer: Malcolm Pirnie the Water Division of ARCADIS, NYSERDA, GHD, et al

Workshop Faculty: Silvia Marpicati, P.E., Malcolm Pirnie the Water Division of ARCADIS; Wayne McFarland, P.E., DEE, GHD Consultants; Ed Evans, Applied Proactive; Tom Moore, C.E.M., CHP Clean Energy

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Sustainability and Energy Conservation: Silvia Marpicati

- Concept of Sustainability
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- Operational and Capital Improvements

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- Wind, PV, hydro, geothermal on-site generation
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Renewable Energy, *continued*

Case Studies

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- Benchmarking and Payback Tools
- Microturbines and Effluent Heat Recovery, Wayne McFarland, GHD
- Efficiency and head required
- Effluent temperature

Lunch

Solar Power: Wayne McFarland, GHD

- Types – advantages and disadvantages
- Motor Systems Program: Ed Evans, Applied Proactive
- Overview of the Motor Replacement Program

Break

CHP Clean Energy: Tom Moore, CHP Clean Energy

Seminar review (course evaluations), Q&A



Long Island Chapter Training Sessions

March 14, 2012

Pump Hydraulics, Selection, Sizing and Controls

Location: Bergen Point WWTP

Workshop Developer: Koester Associates

Workshop Faculty: Mark Koester, P.E.; Tom Whetham, P.E., Koester Associates

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

Hydraulics and pump curve refresher course

Vacuum primed, suction lift, and flooded suction pump considerations

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Lunch

Continued: Selecting the right solids handling pump

Grinder pumping system, sizing and selection

Break (15 minutes)

Pump control system technologies and considerations

Course wrap up, Q&A



April 25, 2012

Sustainability

Location: Bergen Point WWTP

Workshop Developer: Malcolm Pirnie the Water Division of ARCADIS, NYSERDA, GHD, et al

Workshop Faculty: Silvia Marpicati, P.E., Malcolm Pirnie the Water Division of ARCADIS; Wayne McFarland, P.E., DEE, GHD Consultants; Ed Evans, Applied Proactive; Tom Moore, C.E.M., CHP Clean Energy

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

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Renewable Energy, *continued*

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May 16, 2012

Fundamentals of Wastewater Asset Management

Location: Bergen Point WWTP

Workshop Developer: Barton & Loguidice Inc.

Workshop Faculty: Timothy Taber, P.E., BCEE

Contact Hours: 6.0 Wastewater and Engineering PDHs* (*pending)

Programs Runs: 8:30 am–4:00 pm (8:00 am–8:30 am Registration)

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Optimize Operation and Maintenance Decisions

Develop Capital Improvement Program

Determine Funding Requirements

Break (15 minutes)

Develop Asset Management Plan

Case Studies of NYS Asset Management Plans and Discussion



Faculty

Daniel Bentivogli, CRA Infrastructure & Engineering, Inc.

Nellie J. Brown, M.S., C.I.H. Director, Cornell University

Frank DeOrio, Grade 4 Wastewater Treatment Plant Operator, O'Brien & Gere Engineers, Inc.

Ed Evans, Applied Proactive

Mark Greene, Ph.D., O'Brien & Gere Engineers, Inc.

Mark Koester, President, Koester Associates

Lori Lehnen, P.E., CRA Infrastructure & Engineering, Inc.

Silvia Marpicati, P.E., Malcolm Pirnie the Water Division of ARCADIS

Chris Martin, P.E., CRA Infrastructure & Engineering, Inc.

Wayne McFarland, P.E., DEE, GHD

Timothy J. Miller, Grade 4A Wastewater Treatment Plant Operator, retired from NYS DEC

Tom Moore, C.E.M., CHP Clean Energy

George Solymosi, Severn Trent Services, Inc.

Timothy Taber, P.E., BCEE, Barton & Loguidice, Inc.

Bryan Tanner, Holland Chemical Company Inc.

Tom Whetham, P.E., Koester Associates

Logistics

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

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

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

Name _____ NYWEA Member Yes No*

Certificate/License # _____ Wastewater Professional Engineer

Company / Affiliation _____

Mailing Address _____ City _____ State _____ Zip _____

Home Address Business Address (Email confirmations with directions will be sent 1 week prior to event.)

Phone (_____) _____ - _____ Email (required) _____

DATE	SEMINAR	MEMBER*	TOTAL
Western Chapter Training Sessions			
<input type="checkbox"/> January 12, 2012	Pump Hydraulics, Selection, Sizing and Controls	\$65.00	\$ _____
<input type="checkbox"/> September 12, 2012	Nutrient Removal Technology and Process Optimization	\$50.00	\$ _____
<input type="checkbox"/> November 29, 2012	Sustainability	\$50.00	\$ _____
Genesee Chapter Training Sessions			
<input type="checkbox"/> August 15, 2012	Post-Nutrient Removal Upgrade Operations	\$50.00	\$ _____
<input type="checkbox"/> October 3, 2012	Nitrification / Denitrification	\$50.00	\$ _____
<input type="checkbox"/> November 7, 2012	Nutrient Removal Technology and Process Optimization	\$50.00	\$ _____
Central Chapter Training Sessions			
<input type="checkbox"/> March 15, 2012	Confined Space Awareness**	\$40.00	\$ _____
<input type="checkbox"/> April 25, 2012	Pump Hydraulics, Selection, Sizing and Controls	\$50.00	\$ _____
<input type="checkbox"/> June 13, 2012	Nutrient Removal Technology and Process Optimization	\$50.00	\$ _____
Capital Chapter Training Sessions			
<input type="checkbox"/> March 23, 2012	Nitrification / Denitrification	\$50.00	\$ _____
<input type="checkbox"/> April 19, 2012	Confined Space Awareness**	\$40.00	\$ _____
<input type="checkbox"/> May 18, 2012	Disinfection Technology and Pumps	\$50.00	\$ _____
<input type="checkbox"/> August 29, 2012	Fundamentals of Wastewater Asset Management	\$50.00	\$ _____
Lower Hudson Chapter Training Sessions			
<input type="checkbox"/> April 11, 2012	Sustainability	\$50.00	\$ _____
<input type="checkbox"/> June 20, 2012	Confined Space Awareness**	\$40.00	\$ _____
<input type="checkbox"/> October 24, 2012	Nutrient Removal Technology and Process Optimization	\$50.00	\$ _____
Metropolitan Chapter Training Sessions			
<input type="checkbox"/> November 28, 2012	Pump Hydraulics, Selection, Sizing and Controls	\$50.00	\$ _____
<input type="checkbox"/> December 5, 2012	Fundamentals of Wastewater Asset Management	\$50.00	\$ _____
<input type="checkbox"/> December 12, 2012	Sustainability	\$50.00	\$ _____
Long Island Chapter Training Sessions			
<input type="checkbox"/> March 14, 2012	Pump Hydraulics, Selection, Sizing and Controls	\$50.00	\$ _____
<input type="checkbox"/> April 25, 2012	Sustainability	\$50.00	\$ _____
<input type="checkbox"/> May 16, 2012	Fundamentals of Wastewater Asset Management	\$50.00	\$ _____
*Non-member registration is \$130 (includes 1-year Affiliate Membership).		TOTAL	_____

PLEASE FILL OUT PAYMENT INFORMATION:

Payment Options Check # _____ Credit Card MC VISA AMEX Voucher

Card Number _____ Exp. Date _____ V-Code _____

Signature _____

Company _____

Contact Person _____

Address _____ E-Mail (required) _____

City _____ State _____ Zip _____ Telephone _____

Date _____ Authorized Signature _____



Please make checks payable to: NYWEA, Inc., mail to NYWEA, Inc., 525 Plum Street, Suite 102, Syracuse, New York 13204

NYWEA MEC 2012 Training Calendar

DATE	CHAPTER	SESSION / LOCATION
January 12, 2012	Western Chapter	Pump Hydraulics, Selection, Sizing and Controls Protocol Restaurant, Williamsville
March 14, 2012	Long Island Chapter	Pump Hydraulics, Selection, Sizing and Controls Bergen Point WWTP
March 15, 2012	Central Chapter	Confined Space Awareness Arrowhead Lodge, 9248 McKinley Ridge Road, Brewerton NY
March 23, 2012	Capital Chapter	Nitrification / Denitrification Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY
April 11, 2012	Lower Hudson Chapter	Sustainability Walkill at Golf Course
April 19, 2012	Capital Chapter	Confined Space Awareness Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY
April 25, 2012	Central Chapter	Pump Hydraulics, Selection, Sizing and Controls Chenango at Town Hall
April 25, 2012	Long Island Chapter	Sustainability Bergen Point WWTP
May 16, 2012	Long Island Chapter	Asset Management for Wastewater Bergen Point WWTP
May 18, 2012	Capital Chapter	Disinfection Technology and Pumps Pump Hydraulics, Selection, Sizing and Controls Vischer Ferry Firehouse, 360 Riverview Road, Rexford, NY
June 13, 2012	Central Chapter	Nutrient Removal Technology and Process Optimization Ilion at Francesca's
June 20, 2012	Lower Hudson Chapter	Confined Space Awareness Fishkill at IBM
August 15, 2012	Genesee Chapter	Post-Nutrient Removal Upgrade Operations Rochester at Van Lare
August 29, 2012	Capital Chapter	Fundamentals of Wastewater Asset Management Potsdam at SUNY
September 12, 2012	Western Chapter	Nutrient Removal Technology and Process Optimization Protocol Restaurant, Williamsville
October 3, 2012	Genesee Chapter	Nitrification / Denitrification Rochester Van Lare Plant
October 24, 2012	Lower Hudson Chapter	Nutrient Removal Technology and Process Optimization Monticello at Firehouse
November 7, 2012	Genesee Chapter	Nutrient Removal Technology and Process Optimization Wayne County Emergency Management Facility, Lyons
November 28, 2012	Metropolitan Chapter	Pump Hydraulics, Selection, Sizing and Controls Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY
November 29, 2012	Western Chapter	Sustainability Protocol Restaurant, Williamsville
December 5, 2012	Metropolitan Chapter	Fundamentals of Wastewater Asset Management Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY
December 12, 2012	Metropolitan Chapter	Sustainability Hazen and Sawyer (Office), 498 Seventh Ave., NY, NY