

MASS WATERS

MWPCA

MILLBURY TRAINING CENTER RENAMED TO HONOR RICHARD ALDEN - Charlie Tyler

April 23 broke warm and sunny, fine weather for a ceremony to re-dedicate the training center on the treatment plant grounds of the Upper Blackstone Water Pollution Abatement District (UBWPAD). The building was formerly known as the DEP Training Center, and was occupied for years by DEP forces, but following the DEP's divestiture of its Wastewater Treatment Plant Operator training activities, it seemed appropriate to rename the facility in honor of a man who spent the most part of his career there, working to ensure that Massachusetts Operators received some of the best training in the country. New wooden signs at the parking area and the building now read, "Richard Alden Training Facility."

Many of Rick's old colleagues and friends

were on hand for the dedication, as Mike Foisy, MWPCA First VP and a Senior Operator at the UBWPAD plant, stepped up to the podium to welcome the group.



Mike Ackerman, Richard Alden's family and Mike Foisy (l-r) pose with the new training facility sign

The crowd was packed with people whose lives Rick had touched in many ways, from Operators who had received most of their training at his hands, to administrators who were grateful for his years of good work, to numerous members of Rick's family who were invited to share in the commemora-

tion of our late mentor, colleague, and friend.

"Seventeen years ago," Mike said, "when I, like many others, began my certification training, it was under the guidance of two very special men: Rick Alden and Mike Ackerman. Many

Continued on Page 8

WWW.MWPCA.ORG

SPRING 2008

Inside this issue:

Education Requirements for Operator Recertification 2

MA DEP Regulation Changes 2

NEIWPPC Training 5

Ops Challenge Practice Day 6

June Quarterly Meeting Registration

Check out the vendor ads

JUNE QUARTERLY MEETING SET FOR JUNE 18TH IN HOLYOKE, MA

Join us on Wednesday, June 18th in Holyoke, Massachusetts for the MWPCA quarterly meeting. The meeting and optional luncheon will be held at the Log Cabin Banquet & Meeting House.

Presentations will include:

- Treatment of Nitrogen Rich Recycle Streams

- Advanced VFD Technology based on ITT's "Pump Smart" Technology
- DBO of Holyoke WWTF and new CSO Abatement Facility
- Sustainable Design Principles in Municipal Wastewater Projects

Attending the meeting is a great way to network with other operators in the state, learn new information and earn valuable training contact hours (TCHs).

Register using the enclosed registration form!

Questions? Call John Connor at 978-374-0170.

SEEKING AWARD NOMINATIONS FOR MWPCA AWARDS

- Valerie Flaherty

It is once again time for the MWPCA awards program. Awards are presented for individuals in the four categories described below and for plant performance awards. Plant performance awards were new to the organization last year and we were pleased with the participation. We are refining this category to get a better picture of each plant and hope to see even more participation this year.

The awards are:

John J. Hartley Award - This award is for distinguished service to the MWPCA.

Lifetime Member Award - The individual receiving this award must hold an active membership for more than 10 years and be retired.

Operator of the Year - This is for the superintendent or chief operator who has exemplified outstanding service and achievement in the operation and maintenance of a treatment plant.

Laboratory Proficiency Award - Nominees shall exemplify outstanding service and achievement in the laboratory.

Best Small Plant - Under 1MGD

Best Medium Plant - 1-10 MGD

Best Large Plant - >10 MGD

All nominees must be members in good standing of the Association. The nomination form for individuals and a more detailed description of the criteria can be found on the MWPCA web site. In order to nominate someone you would simply submit the completed form to the awards chairperson for evaluation. The plant performance award form will be mailed to each plant in early May.

If you know someone deserving of an award, contact Valerie Flaherty at 508-533-6762.

Deadline is August 1, 2008.

REGULATION CHANGES ON THE WAY - Raymond Willis

The Massachusetts Department of Environmental Protection (MassDEP) has issued draft revisions to most of the regulations governing the site, design and operation of wastewater treatment facilities with discharges to the ground. The regulations that they plan to modify include: 314 CMR 2.00, Permit Procedures; 314 CMR 5.00, Ground Water Discharge Permit Program; and 314 CMR 12.00, Operation and Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Discharges. Additionally, the MassDEP is proposing to eliminate 314 CMR 6.00, Groundwater Quality Standards and establish regulations for the Reclaimed Water Permit Program and Standards (314 CMR 20.00).

The proposed regulation changes are intended to

- MassDEP has issued draft revisions of regulations regarding site, design, and operation of WWTF with discharges to the ground.
- Changes are intended to streamline approval process
- Will affect applicants, engineers, WWTP operators and treatment works owners.
- MassDEP accepting comments till May 12th.
- More info: <http://www.mass.gov/dep/public/publiche.htm#314cmr>.

streamline the approval process and combine several existing MassDEP policies together as regulations while eliminating the need for some existing outdated regulations. These changes to the regulations will affect applicants, engineers, wastewater treatment plant operators, and treatment works owners. The MassDEP has prepared a summary sheet that provides a detailed explanation of the proposed changes and the purpose of their implementation. A brief overview of the proposed changes to the regulations, based on the MassDEP summary sheet, is listed below:

Continued on Page 4

NEW OPTION APPROVED! EDUCATION REQUIREMENTS FOR RECERTIFICATION – Douglas Borgatti

The Board of Certification (BOC) of Wastewater Treatment Plant Operators approved a maximum of two training contact hours (TCHs) per renewal period for professional membership in the MWPCA or NEWEA at the March 19th meeting. If you are a mem-

ber of both MWPCA and NEWEA, you are only allowed a maximum of two TCHs per renewal period.

“If you are a member of both MWPCA and NEWEA, you are only allowed a maximum of two TCHs per renewal period.”

Earlier in the year Bob Pariseau, Education Officer for the MWPCA, submitted the request for consideration.

The BOC of Operators of Drinking Water Supply Facilities allows TCH credit for participation in their professional organizations. The new option will also provide an additional benefit of increasing new membership into the wastewater industry’s professional organizations.

Continued on Page 9

MWPCA CO-HOSTS NEWEA SPRING MEETING ON CAPE COD

MWPCA will be co-sponsoring the NEWEA Spring Meeting, June 1-4, 2008 at the Cape Codder Resort in Hyannis, Massachusetts.

MWPCA members may attend the meeting at the member rate.

The three-day meeting will feature technical sessions on nutrients, storm water, wetlands and energy topics while hosting exhibit displays, operations challenge competition, and networking functions. A special utility management workshop will be offered on Wednesday, June 4th. The

workshop will bring you up-to-date on topics such as: mutual aid, lack of funding, stringent permit limits and doing more for less.

Tours to the Falmouth WWTF and Provincetown WWTF will also be offered to attendees.

For more information, visit www.newea.org or contact NEWEA at 781-939-0908.



Cape Codder Resort

SPRING QUARTERLY MEETING DEEMED SUCCESSFUL



The "Spring" quarterly meeting was held at the Westford Regency on March 19th amidst snow showers that served as a reminder of the winter that would not quit. The meeting was held in slightly smaller space on the second floor. A capacity crowd heard presentations covering a wide range of topics.

Sam Ledwell of EOS gave a comprehensive overview of the chemicals com-

monly used as supplemental carbon at wastewater treatment facilities used to improve nitrogen removal. Sam is the Bioprocess Manger for Environmental Operating Solutions located in Bourne, MA. Sam began his presentation with an overview of denitrification and then went on to talk about the addition of supplemental carbon to achieve lower Nitrogen levels.



Sam Ledwell, EOS

Sam discussed a number of commonly utilized carbon sources including commodity chemicals, proprietary chemicals and liquid waste products. His presentation covered the advantages and disadvantages of each chemical including denitrification rates, sludge production, safety and handling as well as a cost comparison. Sam shared some of the industry

Continued on Page 7

WELCOME NEW MWPCA MEMBERS!

MWPCA would like to welcome 26 new members to the association.

Jason W. Barboza	East Freetown, MA
Donald J. Benz	Leominster, MA
Matthew A. Boucher	Boxford, MA
Steven F. Cavaleiri, Jr.	Attleborough, MA
Sarah E. Chapman	Greenfield, MA
Robert S. Cooper	Gloucester, MA
Donald J. Girouard, Jr.	Grafton, MA
Dana G. Johnson	Ashby, MA
Paul A. Kennedy	Lincoln, RI
John P. Klepacki	Hatfield, MA
John J. Kovich	Westfield, MA
Shaun LePage	Rehoboth, MA
Kenneth L. Marks	Manchester, NH
William H. Mitchell, Jr.	Ipswich, MA
Miguel A. Morales	Southbridge, MA
Scott P. Naumann	Fitchburg, MA
Matthew Parker	Edgartown, MA
Christopher P. Payton	Raynham, MA

Donald L. Prouty	Hardwick, MA
Shawn Ralls	Lowell, MA
Matthew Rodenbaugh	Edgartown, MA
Robert A. Sabo	Smithfield, RI
Peter P. Sanders	Erving, MA
Christopher M. Sullivan	Acushnet, MA
Chris A. Swartzel	Warwick, RI
Ilya Zlatkovsky	Allston, MA

Tighe & Bond
Consulting Engineers
Environmental Specialists

Services for Wastewater

- Collection systems
- Combined sewer overflow abatement
- Facilities planning
- Hydraulic modeling
- Infiltration / inflow analysis
- Pumping stations
- Residuals management
- Treatment system

53 Southampton Road, Westfield, MA 01085
415-262-1400

For information on the office closest to you visit
www.tighebond.com

REGULATION CHANGES ON THE WAY - Continued

- Amends 314 CMR 12.00 to list the responsibilities of contract operators and allows the MassDEP to take enforcement action against both the owner of the facility and/or the contract operator, if the facility is not properly operated and maintained, or if the required monitoring and reporting is not properly done.

- Allows MassDEP to implement more stringent effluent limitations for discharges within a Zone II or Interim Wellhead Protection Area of a public water supply.

- Creation of a General Permit Category within the Ground Water Discharge Permit Program for discharges less than 50,000 gpd provided that they do not impact a sensitive resource area such as a Zone II, an In-

terim Wellhead Protection Area, a sole source aquifer, a nutrient sensitive environmental area or impaired surface water.

- Applicants will be required to submit a hydro geological evaluation for review and approval prior to applying for a Ground Water Discharge Permit.

"The MWPCA strongly encourages its members to take the time to review the full text of the proposed changes and provide comments to MassDEP, as the proposed changes will have far reaching effects..."

- Incorporates the Private Sewage Treatment Facilities Policy into the Ground Water Discharge Permit Program Regulations.

- Expands the list of activities that do not require a Ground Water Discharge Permit.

- Allows the MassDEP to administratively renew certain individual Ground Water Discharge Permit renewal applications provided that spe-

cific minimum criteria have been achieved.

- Eliminates the ground water classifications established by the Ground Water Quality Regulations, 314 CMR 6.00.

- Allows MassDEP to implement special effluent limitations for discharges that will not result in a public health hazard, will not cause the water quality of any public or private water supply to violate the standards set forth in the Drinking Water Regulations, and/or will not violate or contribute to a violation of the surface water quality standards.

- Allows for a mass loading compliance approach for seasonal facilities.

- Incorporates the Nutrient Loading Approach Policy into the Ground Water Discharge Permit Program Regulations.

Continued on Page 7

SPIRALIFT® SR SEPTAGE RECEIVING SYSTEM
Solves Major Disposal Problems



The SPIRALIFT SR from Franklin Miller, Inc. is a complete turn-key septage receiving system that features dependable operation, easy installation and low operating costs. The system is designed to grind, wash, screen and separate septage solids. An optional billing system and automated hauler authentication control station are available.

Represented by: F.R. Mahony & Associates, Inc.

Franklin Miller
Contact: Henry Albro
978-597-0703

frma
water treatment and pollution control equipment

STCC TO BEGIN WWTP OPERATOR TRAINING IN SEPTEMBER 2008

Springfield Technical Community College (STCC) can prepare you for an interesting, challenging and rewarding career in water and wastewater – all aimed at protecting the planet’s most precious natural resource, water!

Interested? Contact Skip Tenczar at 413-755-4596 or tenczar@stcc.edu to learn more about the updated Associate and Certificate degree programs.

Scholarships are available.

OPERATIONS CHALLENGE PRACTICE DAY HELD IN HOLYOKE, MA - Jane Brooks



The NEWEA Operations Challenge Practice Day was held on Friday, April 18, 2008

at the Holyoke, Massachusetts wastewater treatment facility. The plant, operated by United Water, welcomed approximately forty participants from across New England.

Teams from Rhode Island, Maine and New Hampshire made the trip to prepare and practice for the upcoming competition on June 2nd and 3rd on Cape Cod at the NEWEA Spring Conference. Also among those there to learn more about Operations Challenge for future team-building were two operators from the nearby United Water Springfield Regional WWTF, a new partial team from Rhode Island, and one operator from Vermont.

The NEWEA Operations Challenge Committee would like to extend many thanks to the management and staff of United Water for their hospitality in hosting the event at the Holyoke facility, and to the MWPCA for their support in providing morning donuts and coffee as well as Jane's famous jerk chicken as a part of the barbecue lunch. Practice Day registration and lunch were free, and TCHs will be granted to all operators who were in attendance. What a deal!

It's not too late for Massachusetts operators to form a team to compete at the June meeting on Cape Cod.

Join the fun - jump in and get your feet wet!



The first year for any Operations Challenge team is always a learning experience, but that experience is always fun, and the camaraderie among competitors is inspiring.

The MWPCA would like to support a team to compete at the Cape.

If any MA operators out there are interested, please call Jane Brooks at 413/787-6256.

There's nothing to lose, and lots to gain!

Trust your inventory to our "know-where" men.



Trusted EJP warehouse men, Don Andrews and Robbie Maheux

Keeping track night and day: that's the Prescott promise.

You need the latest water, sewer and drain products. We're here to know exactly what products you need and where they are at any given time. And when you let EJP worry about your inventory control, you can focus on more important things—like getting the job done on time and on budget.

Learn how Team EJP can serve your needs at ejprescott.com.

Pipeline Specialists
TEAM EJP
 Everett J. Prescott, Inc.
 Call 1-800-EJP-24HR

WATER • SEWER • DRAIN • STORM WATER SOLUTIONS

www.ejprescott.com

DOCUMENTARY - OUR AGING INFRASTRUCTURE

“Liquid Assets: The Story of Our Water Infrastructure” is a ninety-minute educational documentary on our water, wastewater and stormwater infrastructure.

This film takes an in-depth look at the history, engineering challenges, politics and the economics of these three aging infrastructures in five themes:

1. The Fundamental Public Health System We Take for Granted.
2. A Watershed Protection Approach.
3. An Engineering Marvel-Seeing the Unseen.
4. 21st Century Solutions.
5. The Challenge.



“We have about 2 million miles of pipe in this nation. If you look at what we’re spending now and the investment requirements over the next twenty years, there’s a \$540 billion difference.”

—Steve Allbee, U.S. Environmental Protection Agency

The documentary, produced by Penn State Public Broadcasting, will feature locations such as: New York City, Washington, D.C., Philadelphia and Boston. It will be aired by PBS in October 2008.

For more information, visit:

<http://www.liquidassets.psu.edu/index.html>

SPRING QUARTERLY MEETING - Continued

work on the effects cold temperatures have on the denitrification process in wastewater treatment plants and how some of the carbon sources perform better than others under these conditions. His presentation included information on the storage requirements for

some of the more hazardous chemicals compared with some of the less hazardous chemicals and the significant cost difference between the two. Sam also showed a graph illustrating the dramatic increase in the cost of methanol, the most commonly used carbon source, over the last few years. He also shared some information on some of the accidents involving methanol at wastewater treatment plants. He cited these drivers as the catalyst that has forced the industry to

search for cost effective non hazardous carbon source alternatives.

A show of hands at the end of the presentation indicated that only about a dozen of the nearly 100 attendees were currently working or involved with facilities that were doing enhanced nutrient removal. However, as Sam mentioned during his presentation, the time to start thinking about which alternative carbon source will be used is at the design stage.



Attendees filled the meeting room

Continued on Page 10

REGULATION CHANGES ON THE WAY - Continued

- Requires that ground water discharges meet the Drinking Water Regulation standards.

- Allows the MassDEP to issue an individual Ground Water Discharge Permit to include wastewater reuse in accordance with the proposed Wastewater Reuse Regulations, 314 CMR 20.00.

A detailed summary of the proposed revisions as well as the revised regulations’ text can be found on the Mass-

DEP website at <http://www.mass.gov/dep/public/publiche.htm#314cmr>.

“A detailed summary of the proposed revisions...can be found on the MassDEP website at <http://www.mass.gov/dep/public/publiche.htm#314cmr>”

The MassDEP will be holding public hearings regarding the proposed changes between April 23 and 25, 2008, as well as accepting comments regarding the proposed changes until May 12, 2008. A complete listing of the public hearing dates, times and locations along with the address to submit written comments is also located on the MassDEP website at the above link.

The MWPCA strongly encourages its members to take the time to review the full text of the proposed changes and provide comments to MassDEP, as the proposed changes will have far reaching effects on treatment plant operators, design engineers and municipalities who own or operate onsite wastewater treatment systems with subsurface effluent disposal.

MILLBURY TRAINING CENTER RENAMED - Continued

years of their training, support, professional mentoring and friendship have allowed me to achieve the positions I now hold today, and for that I am truly grateful. I know that many share my gratitude for the dedicated work of these two men."



Mike Foisy

Mike then introduced Tom Bienkiewicz, who reminded the group of many of Rick's qualities,

and recounted a few humorous stories of Rick's conscientiousness and his methodology, and of Rick's perseverance, courage, and optimism even in the face of failing health later in his career.

Tom turned the podium over to Mike Ackerman, Rick's very close colleague and friend, who spoke briefly and with emotion about how much Rick's friendship and professionalism had meant to him.



Tom Bienkiewicz address the crowd

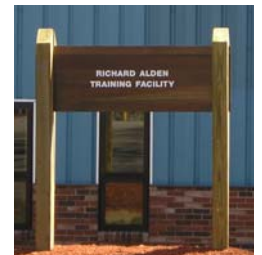
Kimball Simpson, who had known Rick for his entire time at the DEP, spoke fondly of Rick's attention to detail ("Rick was

sometimes known to place paper clips on his important sticky-notes, just to be doubly sure they stayed in place"), and his dedication to ensuring that every student was given the best possible opportunity to learn the things that would help the most in his/her career.

Finally, Mike Foisy returned to the podium to thank the UBWPAD Board and Engineer Director Tom Walsh for their continued support, Karen Boulay of UBWPAD for her help with organizing the event, the UBWPAD grounds crew for their excellent work on the signs and landscaping, the MWPCA membership for their sponsorship, and the Alden family for their presence and for sharing in our efforts to honor Rick's memory.

The attendees were invited to share a light lunch in the familiar classroom at the facility, after which Rick's wife, Sharon, stood and thanked the group for revering the memory of Rick in a way that he would have greatly appreciated.

It is hoped that the Richard Alden Training Facility will remain a center of training excellence for Massachusetts Operators for many years to come. After all, one of the things that Rick stood up for the most was



Operator excellence and professionalism. The next time you visit the training center in Millbury, please take a moment to admire the new signs - and remember Rick Alden.

See for Yourself.

Essential Pipeline Inspection Capability That Is Quick, Affordable and Safe.

Onscreen Distance Measurement
45-60 FT

Lightweight Telescoping Carbon Fiber Pole

Inspect pipes, manholes and tanks from street level with the patented QuickView zoom inspection camera. Contractors use it to survey pipe condition before bidding jobs, and to document completed work. Cities use it to identify and prioritize maintenance issues, avoid confined-space entry, and inspect hard-to-reach infrastructure. Road departments use it to assess culverts and storm pipe with minimal traffic exposure.

Patented Targeting Fixture for Precise, Stable Viewing

Xenon HID Lamps

©2009 Envirosight, LLC. All rights reserved. QuickView name/logo trademarks of Envirosight, LLC. QuickView carries patent nos. 6,538,726 and 7,008,898. Other patents pending.

In Massachusetts
J.F. McDermott
(508) 580-7740

*Inserts above (top to bottom):
Crossed Utilities • Break-in Tap
Infiltration • Fence Post Breach*

Envirosight
SPECIALISTS IN PIPELINE INSPECTION

(973) 252-6700
www.envirosight.com

MA EDUCATION REQUIREMENTS FOR RECERTIFICATION

Operators active during the years 2008 through 2009 shall obtain 20 training contact hours (TCHs) at some point during this 2 year period. Operators must keep copies of course documentation for their next renewal. A random audit will be conducted to ensure that operators have fulfilled the training contact hours requirement. Documentation requires certificate or letterhead with the following: Name of course, Course date, Name of attendee, Number of training contact hours, Board of Certification of Wastewater Treatment Plant Operators file number, Certifying signatures. All courses and seminars must have direct application to the wastewater field.

Courses which are not pre-approved are subject to evaluation and approval by the Board. Approval is based on review of course outline, instruction materials, name, address and background of instructor, and an example of the program completion form or certificate. The provider must keep permanent records that document training hours, approval of training, and attendance rosters.

Individuals who are unsure of Board acceptance of a vendor's TCHs offering should request an evaluation form to be completed by the vendor.

Pre-Approved Courses	TCHs	Additional Comments
MA Wastewater Certification Exam	10.0	Pass Exam
MA Water Pollution Control Association Quarterly Meetings & Trade Show	2.5	Must sign-in to qualify
Professional Membership: MWPCA and/or NEWEA	2.0	2 TCHs MAXIMUM/renewal period
New England Water Environment Association		Hours as awarded
New England Interstate Environmental Training Center		Hours as awarded
DEP Training Center		Hours as awarded
Colleges	15.0	1 credit hour = 15 TCHs
Red Cross, Basic CPR, First Aid Courses	3.0	3 TCHs MAXIMUM per course
If Continuing Education Units (CEUs) are awarded	10.0	1 CEU = 10 TCHs
If no CEUs are granted, approval of the board is needed		Evaluation form completed
Correspondence course		Hours as awarded

WASTEWATER TREATMENT OPERATOR LICENSE STATUS

When and If Status (WI) an operator that has passed an exam, is not working in the field, and does not have experience as defined in 257 CMR 2.12(2). Operators with WI status are not required to obtain the training contact hours (TCHs), but must pay the renewal fee. When WI operators gain employment at a wastewater treatment facility and submit a status change form, the Board of Certification of Wastewater Treatment Plant Operators will change their status to Operating in Training (OT). From that point, operators must obtain TCHs.

INACTIVE operators (those who are not working in the field) with Operator in Training or Full Status are not required to obtain the training contact hours, but must pay the renewal fee. If an INACTIVE operator wants to become ACTIVE, the operator must obtain 10 TCHs and submit a change of status form to the Board of Wastewater Treatment Plant Operators. The operator then must obtain TCHs for the next renewal year.

To change your status from an Operator in Training (OT) status to a Full Status, you must file a completed change of status form with the Board of Certification of Wastewater Plant Operators. The operator must show specific job responsibilities performed in the wastewater treatment field that provided the experience. (OE) open ended part-time or not at the experience level of that grade.

The Board of Certification of Wastewater Treatment Plant Operators will revoke the certification of an operator who fails to pay the renewal fee or fails to obtain the correct amount of training contact hours. Reinstatement following revocation shall be by written examination.

For more information on training contact NEIWPCC at www.neiwpcc.org or the MWPCA at www.mwpca.org.

SPRING QUARTERLY MEETING - Continued

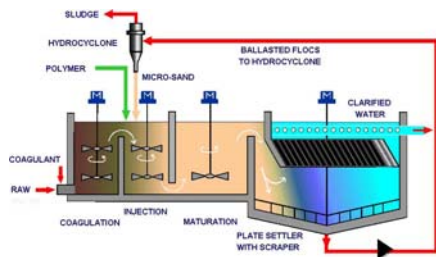
Sam mentioned a number of studies that were being conducted by WERF and other organizations that will help us make more informed decisions as more plants in this region prepare to meet lower Total Nitrogen discharge limits. Perhaps Sam will come back to update us as more information becomes available. For more information see www.eosenvironmental.com

The next presentation was given by Thomas Perry of I. Kruger of Cary, NC. The topic of discussion was on the many uses of the Actiflo ballasted flocculation high rate clarification for wastewater treatment. Mr. Perry discussed the basics of the Actiflo process and full scale operating performance data.

This process is used in a wide range of treatment schemes for control of CSO flows, SSO for high rate secondary clarification and for tertiary treatment to meet ridged standards for phosphorous removal. The system uses a micro-sand particle and coagulant charge of metal salts and polymer to form larger floc particles to



Thomas Perry, I. Kruger



improve settling characteristics. Mr. Perry stressed the relatively small foot print and rapid start up capability of this system. His presentation gave a comparison of treatment technologies and capabilities to meet varying degrees of phosphorous treatment. For more information please see www.veoliawatersystems.com.

The third presentation was given by Bob Moll, Regional Manager for Environment One Corporation. Mr. Moll

presented an update of nearly 40 years of low-pressure sewer success in the collection and conveyance of wastewater. He discussed the history and development of this technology and the applications for its use. Mr. Moll gave a detailed description of the system components and methods of installation for a variety of grinder pump systems. The low-pressure sewer system utilizes grinder pumps at each residence or business to collect, grind and discharge wastewater into



Bob Moll, Environment One

a common pressure force main or low-pressure sewer system.

Mr. Moll presented cost and performance examples of this technology and discussed different approaches utilized in the industry. Mr. Moll cited a number of case studies where the benefits of this technology resulted in cost savings in upfront and long term operation and maintenance. For more information please www.eone.com.

What are Your Options To Meet Lower Phosphorous Limits:	
Process Selection	Anticipated Effluent Quality TP
Coagulant Addition	1 - 1.5 mg/l
Biological Phosphorous Reduction	0.75 - 1.5 mg/l
Multi-point Coagulant Addition	0.5 - 1.0 mg/l
Tertiary Filtration with Coagulant Addition	0.2 - 0.5 mg/l
Tertiary Filtration with Flash mix + Flocc Zone	0.1 - 0.3 mg/l
High Rate Clarification with Coagulant Addition	0.05 - 0.3 mg/l
Micro Filtration (MBR) w/ Coagulant Addition	0.05 - 0.1 mg/l
Ultra Filtration (Hollow fiber) w/ Coagulant Addition	0.01 - 0.05 mg/l

FAY, SPOFFORD & THORNDIKE
Engineers - Planners - Scientists

Wastewater Specialists

Award-winning designs to preserve and enhance the environment

ENGINEERS

FST

Since 1914

5 Burlington Woods
Burlington, MA 01803
1-800-835-8666
www.fstinc.com

2008 MWPCA OFFICERS

President: Charles Tyler – (617) 660-7889
1st Vice President: Mike Foisy – (508) 755-1286
2nd Vice President: Mike Moreau – (508) 495-3300
Past President: Joe Witts – (978) 369-8800
Secretary/Treasurer: John Connor – (978) 374-0170
Education: Robert Pariseau – (413) 259-3115
Mtg. Mgmt. Coordinator: Tom Azevedo – (401) 433-6365
NEWEA Representative: Mike Burke – (413) 534-2222

MWPCA Office : (781) 939-0918

MWPCA Fax: (781) 939-0907

MWPCA Email: MWPCA1965@verizon.net

Directors:

Henry Albro – (978) 597-0703
Tom Azevedo – (401) 433-6365
Jane Brooks – (413) 787-6256
Mike Burke – (413) 534-2222
John Connor – (978) 374-0170
Valerie Flaherty – (508) 533-6762
Mike Foisy – (508) 755-1286
Dan Freitas – (508) 979-4031
Mike Moreau – (508) 495-3300
Robert Pariseau – (413) 259-3115
Eugene Valliere – (508) 790-6335
Ray Willis - (508) 440-5470
Joe Witts – (978) 369-8800

2008 MWPCA COMMITTEES

Awards: Valerie Flaherty – Tel: (508) 533-6762
Collection Systems: Ray Willis – Tel: (508) 440-5470
Election: Peter Doyle – Tel: (508) 790-6335
Industrial: Michael Burke – Tel: (413) 534-2222
Laboratory: Ann Mastroianni – Tel: (508) 790-6336
Membership: Gerry Nye – Tel: (978) 369-8800
Newsletter: Jane Brooks – Tel: (413) 787-6256
Plant Operations: Mike Burke – Tel: (413) 534-2222
Public Relations: Vacant
Safety: Joe Witts – Tel: (978) 369-8800
Trade Show: Tom Azevedo – Tel: (401) 433-6356

Advertiser's Listing

Envirosight, LLC	Page 8
Everett J. Prescott, Inc.	Page 6
FST	Page 10
Franklin Miller/FRMA	Page 4
Tighe & Bond	Page 3

ADVERTISING OPPORTUNITIES!!

Be THE first to take advantage of placing your products or services in front of hands-on operators and treatment facilities throughout Massachusetts!

In a change of policy, the MWPCA Board invites consultants, vendors, contractors, and others to advertise in the quarterly MWPCA newsletter.

Your ad can appear in the next issue of MASS WATERS - a great place to reach potential clients!

A contract and application form, including rates and other details is available on the MWPCA Website at www.MWPCA.org. Call MWPCA at 781-939-0918, or email MWPCA1965@verizon.net for more information.

Don't miss your chance to make a personal impression!

MWPCA

P.O. Box 221
Groveland, MA 01834

Phone: 781-939-0918
Fax: 781-939-0907
E-mail:
MWPCA1965@verizon.net

Massachusetts Water Pollution Control Association

Editors Note:

Mass Waters is a publication of the
Massachusetts Water Pollution Control
Association.

Editor: Jane Brooks

Send Comments, suggestions
and news items to:

Mass Waters
c/o Jane Brooks
100 Tower Office Park, Ste K
Woburn, 01801

email: jane.brooks@waterandsewer.org

2008 MWPCA Calendar of Activities

DATE	MEETING	LOCATION
June 1-4, 2008	NEWEA Spring Meeting Co-hosted by MWPCA	Cape Codder, Hyannis, MA
June 18, 2008	Quarterly Meeting	Log Cabin, Holyoke, MA
September 26, 2008	Fall Tradeshow	Westford Regency Hotel, Westford, MA
December 10, 2008	Quarterly Meeting	Holiday Inn, Taunton, MA
January 27, 2009	Operator's Day at NEWEA Annual Conference	Boston Marriott Hotel, Boston, MA

Jobs Hot Line –
www.mwpc.org

June 18, 2008 Quarterly Meeting Registration Forms Enclosed!!

MWPCA
c/o 100 Tower Office Park, Suite K
Woburn, MA 01801