



MASS WATERS

MWPCA

OPERATOR EXCHANGE PROGRAM IS AN OUTSTANDING EXPERIENCE - Joseph Pease & Fern Johnson

WWW.MWPCA.ORG

The Operator Exchange Program allows a selected operator to visit a host state for three days to tour facilities and meet other wastewater professionals at no cost. This year, the host state was with Rhode Island.

2009 Operators Exchange participant from Massachusetts.

My name is Joseph Pease. I am an employee at United Water in Holyoke, MA, with a grade 7C Massachusetts wastewater operators license.

I was lucky enough to be chosen to participate in the 2009 Operators Exchange Program this fall to Rhode Island.



Bucklin Point WWTF

On Wednesday, the first day of my trip, I visited three plants: West Warwick, Warwick and the Cranston, RI Wastewater Treatment Plants.

In West Warwick, I learned that they compost their sludge and denitrify the plant effluent, which is not part of the process in Holyoke, MA.

The Cranston plant, which is run by Veolia

Water North America, uses centrifuges to de-water the biosolids before they incinerate them.

On Thursday, the second day of my trip, I visited Fields Point

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Fall 2009

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Check out the vendor ads	

- REMINDER -

DECEMBER QUARTERLY MEETING
December 9, 2009
Mansfield Holiday Inn, Mansfield, MA

More information on page 3 or refer to the enclosed registration flyer to register! TCHs awarded!

- REMINDER -

LOCAL WASTEWATER FACILITY EARNS PRESTIGIOUS ENERGY STAR AWARD

The Massachusetts Department of Corrections Bridgewater Correctional Complex, located in Bridgewater, Mass., was recently presented with an Energy Star "Combined Heat and Power" award for using highly efficient systems to save energy, lower greenhouse gas emissions and reduce air pollution.

The Bridgewater facility was one of only four selected for national recognition in the EPA award.

Combined Heat and Power (CHP) generation is the simultaneous production of electricity and heat from a single fuel source, such as natural gas, biomass, biogas, coal, waste heat or oil. CHP is not a single technology, but an integrated energy system that can be modified depending upon the needs of the energy user. CHP is up to 60 percent more efficient than producing heat and power separately.

"We're excited that the Bridgewater Correctional Complex is setting the pace for other major facilities in New England and across the nation," said Ira Leighton, acting regional administrator for EPA New England. "Reducing energy consumption through efficiency is just good common sense, and this facility is a role model for the region."

The Massachusetts Dept. of Corrections

Continued on Page 4

NEIWPCC NEWS

Technical Seminar on Massachusetts Title 5 Approved Technologies

Tuesday, December 1, 2009

Bridgewater State College, Bridgewater, MA

This is the fifth in a series of training sessions covering innovative/alternative onsite systems approved for use in Massachusetts. This session will focus on unique operation and maintenance considerations associated with the treatment concepts of these technologies. This session will also feature information from MassDEP on updates to Title 5 and recent Title 5 approvals, along with an update from the Massachusetts Alternative Septic System Test Center. The course is designed for regulatory officials, design engineers, system installers, inspection officials, and treatment plant operators. Once the agenda and speakers have been finalized the information will be posted on the NEIWPCC training website. To register for this course,

please use the form available from the following website:
<http://www.neiwpcc.org/training/training-docs/techsem.pdf>

MA Wastewater Operator Certification Renewal Information

All wastewater renewals forms for the renewal period 1/1/2008 through 12/31/2009 have been sent. When submitting a renewal there are several things that make the process easier:

1. If you are inactive, please write "Inactive" on the envelope when submitting your renewal.
2. If your company is submitting one check for multiple employees, please write the names and wastewater number of those individuals on the check. Also, make sure that all TCH documentation and renewal applications are included with the check.

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KOWSZ SCHOLARSHIP

The Edward A. Kowsz Memorial Scholarship encourages the advancement of knowledge in all aspects of water pollution control. **Successful applicants are eligible for reimbursement of tuition, registration and other related costs associated with training or coursework in wastewater treatment, collection, disposal, management, or other relevant topics.** Applicants must be a NEWEA member or a member of MWPCA for at least two years to be eligible.

For more information, visit: <http://www.newea.org/StudentEducator/Scholarships/tabid/183/Default.aspx>

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DECEMBER QUARTERLY MEETING APPROACHES



Join us on December 9 at the Mansfield Holiday Inn for MWPCA's Quarterly meeting and receive 3.0 TCHs.

The meeting will include technical presentations, DEP update, Association news and a buffet luncheon (optional).

Technical presentations will include:

- Understanding and Achieving Environmental Compliance - Al Snyder, Environmental Resource Associates, Inc.

- Operations and Maintenance Plan Requirements - Jack Healey, US EPA, Region 1
- Maximizing Existing Facilities to Incorporate Ballasted Tertiary System - Jonathan Keaney, Brown & Caldwell
- Pilot Testing Sludge Dewatering Equipment: The Battle of Three Technologies - Deborah Primeau Mahoney, AECOM

Use the enclosed form to register by December 4, 2009. 3.0 Training Contact Hours (TCHs) will be awarded for operator recertification.

FALL TRADE SHOW HIGHLIGHTS - Ray Willis

What did you think of the new location of the MWPCA Trade Show? We want to know!!

In an overall effort by the MWPCA Board of Directors to offer new and different programs and events, the MWPCA has made a concerted effort to "shake things up." The most recent sign of action is that this year's Trade Show took place at a new venue, the Wachusett Mountain Ski Resort located in Princeton, MA, which offered more opportunities to vendors to display their products while providing valuable



Enjoying the skyride

training contact hours to the 156 operators that attended the event.

Forty-five vendors showcased their products at the trade show this year, including the likes of proprietary treatment system manufacturers, equipment sales representatives, professional associations, and engineering firms. In addition, attendees were able to see the latest products and services offered by the vendors while testing their luck on the MWPCA 50/50 cash and general prize raffles.



Attendees visit over 45 vendors at the Trade Show

Attendees were also able to take in the majestic views of the surrounding area by taking a free chairlift ride to the top of Wachusett Mountain, sponsored by F.R. Mahony and Wright-Pierce.

Following the conclusion of the Trade Show portion of the event, the attendees were treated to a mountainside barbeque buffet lunch.

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Maybe It Is Time... - Bill Bertera

As the deadline for the United Nations' millennium development goals for water and sanitation draws closer, it becomes increasingly certain that we will not achieve even the modest intent of cutting in half the number of people in the world without clean drinking water and adequate sanitation. The United Nations' Year of Sanitation passed with hardly a notice and the Fifth World Water Forum occurred in Istanbul and barely made a ripple. And then there is global warming and climate change and the threat they pose for the very existence of everyone and everything on the planet. But the most obvious environmental threat facing us all is the absence of leadership globally and here in the United States, specifically.

"It is time not only to engage the leading organizations of the water community, but the leading leaders of the water community as well, from both the public and private sectors."

We in the water community can do little about issues of global interest when we cannot or are unwilling to talk with one another...and then to do what is necessary to serve what is clearly in the public interest.

In this instance, it is clearly in the public interest that the professional water community find a way to speak with a single, authoritative and unambiguous voice on the issues of the day as they relate to water, sanitation, public health and environmental protection. The costs of not doing so are both obvious and unacceptable.

The United States has spent much of its history attempting to separate itself from the consequences of its good fortune, its wealth and its economic and

Continued on Page 7

ENERGY STAR AWARD Continued

Bridgewater Correctional Complex received the award for using a CHP system that generates nearly 80 percent of its annual electricity demand and that meets the State's nitrogen oxide (NOx) emission requirements without the need for add-on pollution controls. The CHP system operates with an efficiency of nearly 70 percent and effectively reduces greenhouse gas emissions equivalent to the annual emissions from approximately 600 cars.

"Congratulations to the Department of Corrections Bridgewater Correctional Complex on winning the Energy Star CHP Award," said Massachusetts Department of Energy Resources Commissioner Phil Giudice. "Generating 80 percent of the complex's annual electricity demand on site and achieving significant

"We're excited that the Bridgewater Correctional Complex is setting the pace for other major facilities in New England and across the nation, said Ira Leighton, acting regional administrator for EPA New England."

greenhouse gas emissions, Bridgewater's combined heat and power system is a great illustration of the Commonwealth's public agencies 'leading by example' as we pursue Governor Patrick's vision of a clean energy future."

Conventional fossil-fueled power plants produce power with a typical efficiency of about 30 percent. The projects recognized by EPA in this award are reaching operating efficiencies of at least 50 percent.

Since 1999, EPA has given the ENERGY STAR CHP Award to recognize organizations and institutions that install exceptionally efficient CHP systems. In 2001, EPA formed a CHP Partnership working with organizations to reduce the

environmental impact of power generation. In addition, the partnership supports the development of new projects that have significant energy, environmental, and economic benefits.

ATTENTION MEMBERS - Why not join a committee?

Your help and expertise is needed. There is something for everyone at MWPCA. To join simply call the MWPCA office at 781-939-0918 or call a committee chair listed on page 7.

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TRADE SHOW Continued

Prior to the lunch buffet, MWPCA President Mike Foisy conducted general Association business with the membership and provided the audience with information concerning the Association's upcoming events. In attendance and speaking during the general business meeting was Erin Mosley, the current President of the New England Water Environment Association (NEWEA), who summarized recent NEWEA, Water Environment Federation, and EPA awards bestowed to operators for their exceptional service and dedication to the profession. In

addition, the MWPCA's Awards Chair Valerie Flaherty presented MWPCA annual Plant Performance Awards for small, medium and large wastewater treatment facilities as well as the Lab Proficiency Award.

Overall, the input received by MWPCA from the operators and vendors attending



Attendees meet with over 45 vendors

Continued on Page 10

ANNOUNCING THE 2010 ANNUAL OPERATOR'S DAY

This year, **Operator's Day** will be held on **Tuesday, January 26**.

Operator's Day is part of the New England Water Environment Association's (NEWEA) Annual Conference & Exhibit, January 24 - 27, 2010 at the Boston Marriott Copley Place Hotel, Boston, MA.

One MWPCA operator from every municipal treatment plant will be subsidized for **FREE ADMISSION** by the MWPCA to attend on Tuesday.

Last year, over 40 operators took advantage of this great opportunity offered by MWPCA.

Operators who attend on January 26 will be able to take advantage of the following:

- Visit 200+ vendor equipment displays.
- Attend technical sessions on "hot" topics such as: Collection Systems, Plant Operations, Safety, Asset

Management, CSO and Energy, etc.

- Take part in a complimentary luncheon, provided onsite at the Bello Mondo restaurant.

REMEMBER!

Operator's Day
January 26, 2010

If you have any questions, please contact Bob Pariseau at 413-259-3115.

Watch the mail!

Information will be sent in early December to all municipal treatment plants.

OPERATOR EXCHANGE Continued

and Bucklin Point Wastewater Treatment Plants in Warwick, RI. While at Fields Point, I was treated to a three-hundred-foot descent down into the CSO tunnel. I learned that the Bucklin Point plant, while being managed by United Water employees, is still under city contract.

"Every operator should have a chance to take part in this program."

-Joseph Pease

This program is an asset for all operators. Every plant I visited is trying to reach the same goals but in different ways: from cost savings, maintenance programs, S.C.A.D.A, denitrifying, de-watering and to biosolids disposal.

By going on the exchange program, it made me a better operator by getting a chance to look at new things, talk to people and get a different perspective.



NWPCA Trade Show

I would like to thank the Narragansett Water Pollution Control Association for the ever wonderful hospitality that they showed me. I was treated to

Continued on Page 8

THE PUZZLER: FU-FU JUICE

And yet another salesman stopped in unannounced this week to see the Chief of Maintenance. This time he was offering to sell to the WTP his miracle-working Fu-Fu Juice. Guaranteed, he claimed, to take care of all grease problems in our pump stations. He had two formulations to choose from: the five-dollar per gallon "gentle action" type and the ten-dollar per gallon "fast action" type.

The Chief of Maintenance, not being one to cut unsolicited salesmen any slack, bent the truth a little (really a lot) and said a saleswoman called yesterday selling her version of a degreaser that was gentle AND fast action for only eight-dollars per gallon.

"Er, well," the salesman mumbled, "I can provide that, too."

"If you can get me that product today, I'll give you an order." the Chief of Maintenance said and chuckled at how much fun it was to play with salesmen.

Sweat started to form on the salesman's brow as he wondered just how he was actually going to obtain such a product on short notice. Then he thought, why couldn't I just mix the five-dollar per gallon "gentle action" Juice and the ten-dollar per gallon "fast action" Juice together? I just need to figure out the correct mixing ration so that the final price comes out to be eight-dollars per gallon. After a little bit of thought, he said with confidence, "I can sell this to you in five-gallon containers for forty-dollars (which is eight-dollars per gallon)."

"Good enough for me," the Chief of Maintenance responded, somewhat surprised that a Fu-Fu Juice salesman outsmarted him.

"I'll be back in a few minutes with your order," said the Salesman as a smile crept onto his face.

What was the mixing ration of the "gentle action" Juice and the "fast action" Juice so that the salesman could make up a five-gallon container and not have any partial gallon containers left over?

Answer on page 11



NEIWPCC NEWS Continued

3. All active wastewater operators must submit proof of fulfilling the Training Contact Hour (TCH) requirement of 20 hours. A listing of NEIWPCC, MWPCA, NEWEA training as well as Board of Certification exam hours is attached to the renewal notice. You DO NOT have to provide proof of these hours.

When submitting your wastewater renewal, don't wait until 12/31/2009! Your application will be processed faster if you send it in before the end of the year rush.

Don't forget that you can obtain 2 Training Contact Hours per renewal period, for your full membership in MWPCA. Please submit a copy of your membership card in order to receive these TCHs.

Wastewater Operator Certification Exams

MA Wastewater Operator certification exams are now available through a web-based provider. To make your appointment, go to www.goamp.com and schedule an exam at various locations, or you can telephone 800-345-6559. Since its inception in July, there have been a total of 112 wastewater exams taken online.

The next "paper" wastewater exam will be given on November 21, 2009. This may be the last time the exam will be offered in this form.

New Computers

Thanks to the Town of Amherst, MA and NEIWPCC, the Rick Alden Training Center will soon have new computers. The old computers are being replaced with newer units with more up-to-date software. These computers are used for training in computer programs, such as Excel and Access, and also CD-ROM training.

CD-ROM Training

CD-ROM training will be available again this fall. Self-paced training programs from Water Environment Federation on topics such as Wastewater Treatment, Activated Sludge, Solids Handling, Pump O&M and others are available for training and are accepted for Training Contact Hours by MassDEP on a one-time basis for each topic. Training time must be scheduled by contacting James LaLiberte at NEIWPCC, 978-349-2520.

Training Topics

It may be fall, but it's the time that we start looking forward to spring training. We appreciate your ideas on training topics and also new locations for training. We want to provide the training you want and need. We also wish to be accessible to all operators. If you have a location that can seat up to 30 people in your area, we'd like to hear about it. Contact James LaLiberte at 978-349-2520.

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SPECIAL REQUEST - CAN YOU LEND A HAND?

The City of Northampton is seeking information on Sewer Application Permits and Sewer Claims Procedures. The City is attempting to update their procedures and would like to see how this is handled by other communities. If anyone has written procedures for claims and a sewer application permit, we would appreciate a copy. Anyone providing a copy of their procedures, will be sent a copy of Northampton's updated procedures.

Please send any information to:

Ned Huntley, Director
D.P.W
125 Locust Street
Northampton, MA 01060



Maybe It Is Time...Continued

political influence. We are doing so today with respect to water and sanitation. Unfortunately or not, the decision is not conscious. We have not decided to “not lead”. We have simply chosen not to do that which is required to make leadership possible. Making leadership possible requires a critical mass, a critical mass which is otherwise available within the water community, but is diffuse under the cloak of a score or more competing associations.

It is not just that there are too many professional water associations in the United States...there certainly are. The problem, however, is not only in their numbers, but that their very existence works against the public interest. They have become part of the problem rather than the solution. Instead of becoming clarion voices for adaptation and change, some protect the past as though it were not only today but the future as well. It is not. Drinking water and what we used to call wastewater are not separate sciences, technologies or industries. They never have been...we just did not know it until relatively recently. Now that we know it, not recognizing it is unconscionable.

It is abundantly clear that our existing institutions are not capable of adapting to the needs of the changing world of water without some help...some help from outside the confines of their corporate logos and bureaucracies. The petty disputes between the largest of our organizations at both the state and national levels indict us all and seem exacerbated rather than mitigated

by the current economic crisis that has enveloped our national psyche. We need a path forward...badly.

Each year, for the past several years, under the initial leadership of the American Water Works Association, and then with the endorsement of many but not all of our leading water associations, we have held an annual “summit” in Washington.

The summits are a wonderful idea, but they have been less than fully worthwhile. Little has been accomplished that really matters...no strategic understandings or decisions reached...just conversation that is readily lost within a year as the leaders of all the organizations change yet again and a new crop of leaders takes the helm of their respective organizations. No continuity, no horsepower, no change and therefore, no progress. That itself needs to change. Here is an idea...

“...the most obvious environmental threat facing us all is the absence of leadership globally and here in the United States specifically.”

It is time to move the conversation “up a notch” as a famous celebrity chef often suggests. It is time not only to engage the leading organizations of the water community, but the leading leaders of the water community as well, from both the public and private sectors. Maybe what we need is a real national summit of senior public officials and CEOs. Maybe what we need is a White House Summit on Water and the Environment. Maybe this is something we could all agree upon and on which we could work together. Maybe that would be a real beginning.

Bill Bertera is the Executive Director of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, VA. He is a career association executive with extensive experience in not-for-profit

OPERATOR EXCHANGE Continued



Egg Digesters

a wonderful dinner each night I was there along with a clambake at their annual trade show in Smithfield, RI.

It was an outstanding experience for me. Every operator should have a chance to take part in this program.

2009 Operators Exchange participant from Rhode Island.

My name is Fern Johnson. I work for the Narragansett Bay Commission in Providence, Rhode Island.

I was recently approached by one of my supervisors and asked if I would be interested in participating in the operator exchange program. I was a bit hesitant but after finding out more about the program, I decided to go.

My trip lead me to Haverhill, MA where I was put up at a very nice hotel by the MWPCA and taken out for all of my meals. The food and the company were wonderful.

Over the next few days, I was picked up at my hotel and taken on tours of the Haverhill, Greater Lawrence and MWRA's Deer Island Treatment Plant. On my last day of the program, I was invited to attend the MWPCA's Fall Trade Show at Wachusett Mountain Resort in Princeton, MA. The trade show included a BBQ luncheon, vendor displays and a trip up the ski lift to the top of the mountain.

I would like to thank everyone from the MWPCA for taking time out of their busy schedules and for making my trip a great experience. I would highly recommend the operator exchange program to anyone who may ever have the opportunity.

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www.mwpc.org

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NEW MEMBERS (August - October 2009)

MWPCA would like to welcome the following 38 new members to the association:

Brian M. Amidon	Pittsfield WWTP
Demetra J. Borlas	AMAG Pharmaceuticals
Gary S. Cates	
Alexander Dzindolet	
William F. Eagan	
Paul A. Esteres	AMAG Pharmaceuticals
William R. Hall	GHD
Kenneth J. Heim	AquaNumerics Inc.
Brian F. Hoar	Mirant / Canal
Randy S. Hunt	Pittsfield WWTP
Ken Joslin	Select Engineering
Philip, J. Kostecki Jr.	Northfield WWTP
Ellie Kurth	Amherst DPW
David P. Langlais	Veolia Water
William J. Lopes	Charles River PCD
David N. Lubiner	Providence Metallizing Co.
Michael McCoughey	Billerica Wastewater Div.
Michael C. McDonald	Conestoga-Rovers & Assoc.

James E. Meagher	Mineral Processing Services
Robert A. Mills	M/A-com Tech. Solutions
Bruce A. Morriseau	
Nathaniel D. Munafo	Town of Marion
Jeremiah P. Murphy	Whitewater Inc.
Michael T. O'Brien	
Michael M. Padulsky	Town of Mansfield
Carlos A. Paiva	KGI Bridgeport Co.
George W. Patnode	Erseco
Paul N. Provost	Weston & Sampson Services
Michael T. Racine	Select Engineering
Mark J. Ready	Taunton WPCF
Vincent J. Roy	Shrewsbury W&Sewer Dept.
Kenneth J. Ruel	Standard Chain Co.
David N. Schoonmaker	THAT Corporation
Brian J. Viera	United Industrial Services
Alfred F. Waitt	Veolia Water/Lynn WWTF
Alyson B. Watson	GHD
Henry B. Weagle Jr.	Upper Blackstone WPAD
Paul J. Wilson	Northbridge DPW

AND THE AWARD GOES TO...

MWPCA's Award Committee Chair, Valerie Flaherty recently presented the Plant Performance and the Laboratory Proficiency Awards at the 2009 Fall Trade Show in Princeton, MA.

The Plant Performance Awards recognize municipal wastewater treatment plants in Massachusetts. Plants are evaluated for BOD, TSS and Fecal Coliform removal and are presented in three size categories: less than 1 MGD (Small), 1-10 MGD (Medium), and greater than 10 MGD (Large).

This year's recipients were:

Best Small Plant - Edgartown Wastewater Treatment Facility. Receiving the award for Edgartown was David Thompson, Chief Operator; Joseph Alosso Facilities Manager and the entire staff from the facility.

Best Medium Plant - North Attleboro Wastewater Treatment Facility. Receiving the award for N. Attleboro was John Horton Superintendent/Chief Plant Operator and Merrill Hastings Assistant Chief Operator.

Best Large Plant - Lynn Regional Water Pollution Control Facility. Receiving the award for Lynn was Al Waitt, Project Manager and Robert Tina, Director of Operations.



The Laboratory Proficiency Award

recognizes a person who has exemplified outstanding service and achievement in laboratory techniques and procedures.

This year's recipient was:

Cheryl DeValk, Laboratory Supervisor, North Attleboro WWTF.



MWPCA would like to congratulate this year's award winners for a job well done.



Award descriptions and criteria can be found on MWPCA's Website:

<http://www.mwpc.org/awards.html>

2010 Plant Performance applications will be available next Spring.

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FALL TRADE SHOW Continued

the Trade Show was very positive, and the MWPCA Board is already making plans to hold the Trade Show event at Wachusett Mountain again on September 29, 2010.

Thank you to all the vendors and operators that attended this year's Trade Show, and we look forward to seeing you next September.

Once again, our goal has recently been to break away from the status quo and offer new events, such as the MWPCA golf tournament, as well as new meeting



Time for a BBQ luncheon

formats and venues to the Association members. If you have any suggestions, or if you feel there is anything we could do differently regarding any Association events

and/or meetings to make them more beneficial to you, please let us know because we want to hear from you! Any of the MWPCA Board of Directors are readily available to answer your questions or listen to your comments on ways to improve these events and the Association as a whole. This is your Association, and your ideas are what will keep it working for all of us.

Pictures from the trade show can be found at:

<http://s369.photobucket.com/albums/oo136/mwpc/2009%20Trade%20Show/>

Fall Trade Show Vendors

- A/D Instrument Repair Service
- ABC Environmental
- ADS Environmental
- Amaral Automation
- Applied Dynamics Corp.
- Aqua Solutions, Inc.
- Associate Measurement Co.
- Associated Electro Mechanics Inc.
- BAU/Hopkins, Inc.
- Bio-Aquatic Testing
- Bisco Pump Systems
- Carl Lueders & Co.
- David F. Sullivan & Associates, Inc.
- Environmental Operating Solutions, LLC
- EnviroSystems
- ETA Associates, Inc.
- F.R. Mahony & Associates, Inc.
- Flow Assessment Services
- Franklin Miller, Inc.
- GAC Chemical Corp
- HACH Company
- Hayes Pumps
- Hisco Pump Inc.
- ITT Flygt Corporation
- J & R Engineered Products, Inc.
- Kaman Industrial Technologies



Participants met one-on-one with vendors

- M.A. Selmon Co. Inc.
- Maryland Biochemical Company
- Mechanical Solutions, Inc.
- MGD Process Technology, Inc.
- MWPCA
- NEIWPC
- New England Environmental Equipment
- NEWEA
- Next Generation Industries, Inc.
- Oakson, Inc.
- Plastic Pipe & Supply
- Pond Technical Sales
- Seacoast Supply Inc.
- Synagro
- Systea Scientific, LLC
- Technology Sales Associates. Inc.
- The Maher Corporation
- Tighe & Bond, Inc.
- Walker-Wellington Assoc.
- Wilkem Scientific
- Wright Pierce
- Yankee Onsite WW Association



The annual raffle drawing drew a large crowd

Thank you for your participation!

Mark your calendars - The 2010 Fall Trade Show will be held on Wednesday, September 29, 2010.

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 Mtg. Mgmt. Coordinator: Tom Azevedo – (401) 433-6365
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 Joe Witts – (978) 369-8800

2009 MWPCA COMMITTEES

Awards: Valerie Flaherty – Tel: (508) 533-6762
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Advertiser's Listing

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Tighe & Bond, Inc.	Page 2

1 gallon (x \$5/gal) + 4 gallons (x \$10/gal)	= \$45/5 gallons	= \$9/gal
2 gallons (x \$5/gal) + 3 gallons (x \$10/gal)	= \$40/5 gallons	= \$8/gal
3 gallons (x \$5/gal) + 2 gallons (x \$10/gal)	= \$35/5 gallons	= \$7/gal
4 gallons (x \$5/gal) + 1 gallon (x \$10/gal)	= \$30/5 gallons	= \$6/gal
5 gallons (x \$5/gal) + 0 gallons (x \$10/gal)	= \$25/5 gallons	= \$5/gal
# of \$5/gallon containers + # of \$10/gallon contain-ers		

The Salesman mixed 2 gallons of the "gentle action" juice (at \$5.00/gallon) with 3 gallons of the "fast action" juice (at \$10.00/gallon) for a total of five-gallons. The resulting cost is a product that costs \$8.00/gallon. Since only whole-gallon units are mixed to produce five-gallons of final product, you can set up a chart of all possible mixtures, calculate the cost, and see which one gives a price of \$8.00/gallon. There is only one solution.

ANSWER: FU-FU JUICE

MWPCA

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Massachusetts Water
Pollution Control Association

Editors Note:

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Editor: Jane Brooks

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and news items to:

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2009-2010 MWPCA CALENDAR OF ACTIVITIES

DATE	MEETING	LOCATION
December 9, 2009	Quarterly Meeting	Mansfield Holiday Inn, Mansfield, MA
January 26, 2010	Operator's Day at NEWEA Annual Conference	Boston Marriott Copley Place Hotel, Boston, MA
March 24, 2010	Quarterly Meeting	Westford Regency, Westford, MA
June 2010	Quarterly Meeting	Log Cabin, Holyoke, MA
September 29, 2010	Fall Trade Show	Wachusett Mountain, Princeton, MA

ADVERTISING OPPORTUNITIES AVAILABLE IN COLOR!

The MWPCA Board invites consultants, vendors, contractors, and others to advertise in the quarterly MWPCA newsletter. Full, half, quarter page and business card ads space is available. **It's a great place to reach potential clients!** A contract and application form, including rates and other details are available on the MWPCA Website at www.mwpcal.org

Call MWPCA at 781-939-0918 for more information.

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

Enclosed: December 9, 2009 Quarterly Meeting Registration Forms

MWPCA
c/o 10 Tower Office Park, Suite 601
Woburn, MA 01801-2155