



SpotLight on Maintenance

OPFMA Newsletter - Connecting Knowledge with Public Facilities' Needs!
Winter 2009

Page 1 of 9

Ohio Public Facilities Maintenance Association

OPFMA is a not for profit 501(c) (3) independent educational trade organization



Inside Edition:

- ◆ 2009 Amazing Year - OPFMA Achieves Amazing Results 1
- ◆ 2009 Conference Sponsors and Attendees Statement 1
- ◆ Congratulations - 2010 OPFMA Executive Officers! 3
- ◆ OPFMA Newest Members - Welcome Aboard! 3
- ◆ OPFMA Bids Farwell to Larry Wiesen 3
- ◆ 2009 Attendees Volunteer to participate in OPFMA 2010 Committees 3
- ◆ Three BOC Series Graduates Recognition - (2) BOC Level 1 and (1) BOC Level-2 4- 5
- ◆ Building Enveloping Plan - Reduce Energy Loss 5
- ◆ Hamilton County Facilities Dept Energy Management Leadership Recognition 7
- ◆ What is Scale Costing You? 8
- ◆ From Church Bulletin 8
- ◆ Board of Directors - Contact Info Publishing Submission Info 9

2009 Amazing Year - OPFMA Achieves Amazing Results!

From the Administrator's Desk

Special Thanks to OPFMA Remarkable Membership Support!

OPFMA is happily announcing Achieving Amazing Results in These Times! The theme of OPFMA 2009 Conference - became OPFMA story despite of an economic turmoil in 2009!

In Jan 2005 the current OPFMA Administration picked up the baton and started on building on the foundation established by the hard work of others before.

No ride is smooth from A to Z! Unexpected events can turn things upside down - but having a professional and reliable team who understands that sometimes sacrifices are required and by applying good working principles on a daily basis - Success always follows!

Not one single person can expand an organization on his own effort – there is teamwork and many entities involved each contributing at his best abilities that adds up and make success possible!

Many thanks to OPFMA Members for involvement in organization's life and for participating in events, and seminars organized at their suggestions and in their behalf as well as enrolling in BOC certification training program! We will strive to fulfill the on-going educational and professional needs of OPFMA membership.

Very special thanks to the OPFMA Board of Trustees and the Conference Committee for their non-stop support and advice throughout the year. Sincere appreciation to all attendees, exhibitors and speakers who volunteered their talent! Also special appreciation to all our BOC students and their facilities, to hosting facilities, BOC instructors and Site Coordinators!

Since its foundation OPFMA's mission was to offer educative seminars and events for public facilities maintenance employees across Ohio - mission that was supported and guided by ODOT. Sincere gratitude for their guidance and support making our success possible!

The most important and exciting duty after Conference and Trade Show is to review and summarize Attendees' Conference evaluation and suggestions! THANK YOU for participating!

Continued on Page 2

Special Appreciation - OPFMA 2009 Conference Sponsors!



The Brewer- Garrett Company



Johnson Controls



**Allied Environmental Services,
Inc.**

2009 OPFMA Conference and Trade Show - Evaluated by Attendees:

Conference	Excellent	Good	Fair	Poor
Conference Overall	60%	40%	-	-
Session's Content	50%	49%	1%	-
Presenters	60%	40%	-	-
Registration Folder	55%	45%	-	-
Trade Show	47%	52%	1%	-
Meeting Rooms	44%	51%	5%	-
Meals' Quality	58%	39%	3%	-
Hotel Rooms	61%	36%	3%	-

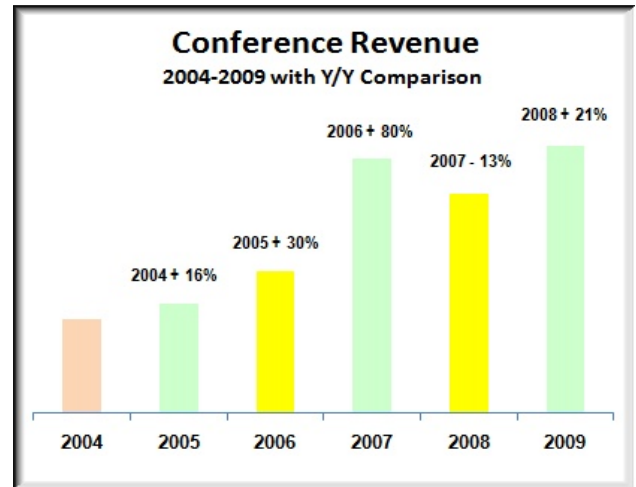
2009 Amazing Year - OPFMA Achieves Amazing Results!

From the Administrator's Desk

Since 1987 OPFMA has focused on making the Annual Conference and Trade Show must be the largest event of the year for its members, "the front liners" the backbone of the maintenance departments of public institutions! This annual event is very complex and requires a huge amount of time and tremendous team effort! Without a great teamwork it can't be done!

2009 late summer - the Chairman of Conference Committee - Norm Sorge, Vice-President of OPFMA had to resign due to unexpected personal matters. OPFMA appreciates very much Norm's outstanding support! Norm's optimism and doer nature is much missed. We wish him well and hope he will come back!

OPFMA staff and the Conference Committee worked harder than ever and **OPFMA had the MOST successful Conference ever!!!** The chart on the right reflects the path we traveled together - **THANK YOU ALL for making 2009 a RECORD SUCCESS!**



During 2009 OPFMA has organized and administered a total of (81) training and educative seminars!

- (24) seminars organized and administered during the 2009 Conference
- Trade Show - vast array of companies organized to hotel's maximum capacity (we turned away 7 willing exhibitors)
- (12) Informational mini-sessions as "Table Talk" have been organized during the Trade Show.

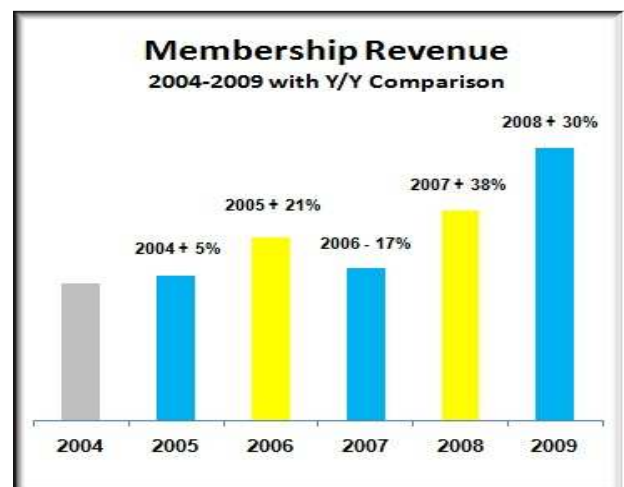
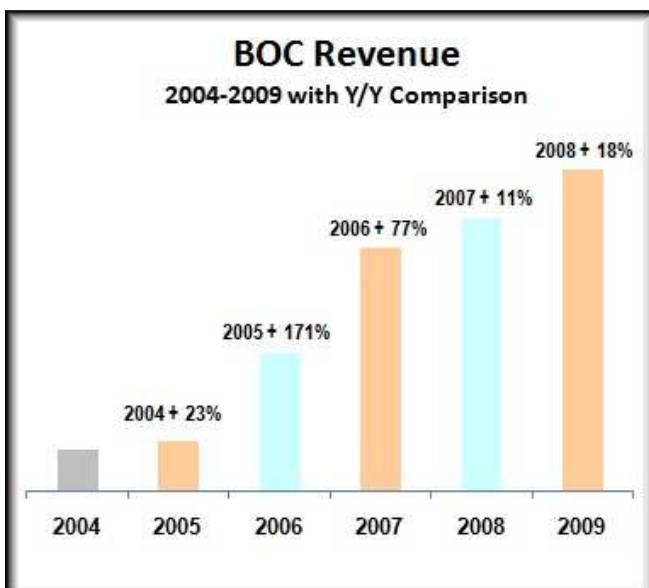
OPFMA staff had organized (6) new BOC series (five Level-1 and one Level-2) in (4) cities - Columbus, Kent, Solon and Dayton. (56) BOC classes have been organized and administered during 2009 - classes from a couple of BOC series continue in 2010. (56) BOC instructors have been scheduled and reimbursed for their service - as well as BOC Site-Coordinators During (56) BOC classes OPFMA has provided training for, throughout the year 1,548 individuals have been assisted & provided for with student manuals & class materials as well as breakfast and lunch.

Also based on OPFMA membership's expressed interest - we organized (1) OPFMA Seminar on "The Energy Management Plan - Energy Savings Strategies". Membership discounts applied to this seminar also!

The BOC Certification Program got our laser focus energy year after year resulting in seven (7) times the BOC volume of 2004 that current Administration started with!

Based on the last five years' records, we can confidently say that, OPFMA has established a positive pattern that produced outstanding results year after year in the most difficult economy - as the charts testify it!

OPFMA staff shall keep on applying their old secrete - KNOWLEDGE - WORK HARD and great ATTITUDE!





Larry Wiesen,

OPFMA President in 2003 and long time OPFMA supporter, a friend, a kind father and grandfather, a great patriot and Vietnam Vet, our beloved **Larry has been called home, to Heavens on the night of Oct 28th 2009.**

The courageous Fighter had forced the enemy-cancer to back off for few good years!

Larry will be remembered as a straight talker, a Great Patriot who feared only God!

Congratulations to OPFMA 2010 Executive Officers!

OPFMA Board of Trustees and OPFMA Administration invites you to join us in **Congratulating and Wishing Success to OPFMA 2010 Executives!**

OPFMA President – Mark Wantage - Ohio School Facilities Commission -

- 2006 - Mark Wantage participated as an OPFMA Ex-Officio member in OPFMA board meetings - and supported OPFMA long before that
- 2007 - Mark Wantage became OPFMA Institutional II Member and also part of Board of Trustees
- 2008 - 2009 Mark Wantage was OPFMA Secretary/Treasurer
Mark supported OPFMA in numerous ways - too many to name

OPFMA Vice-President – Ron Atkins - Vandalia-Butler City Schools

- 1991 - Ron Atkins joined OPFMA as Institutional I Member
- 2000 - 2009 Board of Trustees * supported all conferences and always offered support where needed most and no one volunteered for!
- 2008 - Co-Chair Membership & Marketing Committee
- 2009 - Co-Chair/Chaired Conf. Committee managing unexpected changes

OPFMA Treasurer – Randy Crossley - Lima City Schools

- 2005 - Randy Crossley joined OPFMA as Membership Institutional 2 Member
Randy asked OPFMA to organize a BOC L-1 Series in Lima for their 17 employees (the largest class at that time!) also hosted BOC Series 3 Lima City Schools employees attended 2005 Conference
- 2006 - Sent another 5 employees to BOC training & 3 to conference
- 2007 - Randy elected as OPFMA Trustee - supported all conferences
- 2008/2009 - Co-Chaired/Chaired the Marketing & Membership Committee

2009 Attendees Volunteer to Help with 2010 Conference or Serve on Any Other OPFMA Committee

OPFMA Appreciates Your Offered Support -We will contact you!

Warren Buttler - Service Manager - New Albany Schools
 Brad Callender - Buckeye Career Center
 Tom Hebebrand - Facilities Manager/Health, Safety & Security Director - Community Assessment and Treatment Services

David Reveal - Maintenance Supervisor - Southern Hills JVS
 Brian Smith - Director of Facilities - National Trail LSD
 John C Wolf - Building and Ground Supervisor - CCBDD
 Tom Hand - T.J. Hand Facility Mgmt Consultation

OPFMA Welcomes Aboard New Members!

Institutional II Members

Ashland City Schools

Robert W. Knabe - Business Manager

Franklin County PFM - Expanded membership standard adding two new members!

Individual Members

Joseph Campbell - TCP World Academy - Plant Operator

James E. Dano - Beavercreek City Schools

Doug Comstock - Kenton City School District - Maintenance Supervisor

Brian Webb - Hardin Northern School District - Maintenance Supervisor

Individual Members

John Garwood - Columbiana County Career & Technical Center - B & G Supervisor

Richard Allen Roger - Licking Heights Local School District - B & G Supervisor

Associate Members

Air Force One - Jim Duckworth - Service Consultant

Dear New Members - Contact us with any questions!
 Visit our web site: www.opfma.org get the latest info about OPFMA seminars, BOC classes and learn more about OPFMA Associate Members!

Direct links to their websites make it easy to learn if they could be of assistance to your facility's needs!

◆ BOC Level-1 Graduates - Columbus Series ◆

March 2009 - September 2009

OPFMA Board of Trustees and the Administration Congratulates the Graduates and Wishes Them Success!



OPFMA also praises and recognizes facilities' efforts that, regardless of unmatched economic stressful times, made a priority of training and certifying their employees to keep pace with today's technology and higher standards!

OPFMA continues to assist those BOC students who didn't graduate yet. All Graduates are listed below in alphabetical order!

Todd Allen (Mount Vernon City Schools), Brian Back (Fairfield Local Schools), Keith Bell (Franklin Local School District), Ervin Baldwin (Tolles Career & Technical Center), Tim Buffenbarger (Waynesfield Goshen Local Schools), Duane Callender (Buckeye Career Center), Stefanie Campbell (Dayton Power and Light), James Duncan (Hillsboro City Schools), Roger Frommen (Liberty-Benton Local School District), Randy Kintz (Appalachian Behavioral Healthcare), Ronald Klapper (Middletown City Schools), Dave Liggett (Northridge Local School District), Ralph Linne (Hamilton County Dept. of Facilities), Charlie Manczak (Ohio Bldg Authority-James A. Rhodes), Scott Michaelson (Dayton Power and Light), Charles Oxley (South-Western City Schools), Todd Schockling (Canal Winchester Local Schools), George Smith (Licking Heights Local School), Terry Wohlford (North Fork Local School Dist), Wayne Young (Cory-Rawson Local Schools), John Zinn (Vinton County LSD)

◆ BOC Level-2 Graduates - Columbus Series ◆

April 2009 - September 2009

OPFMA Administration and Board of Trustees Congratulate the Graduates and Wishes Them Success!

Special appreciation for Facilities' efforts that, regardless of the unmatched economic stressful times, made a priority of training and certifying their employees to yet a higher level - promoting leadership and responsibilities!

All the Graduates have already been BOC Level-1 certified!



The BOC Graduates in alphabetical order and their Facilities:

Eric Bassett (Hicksville Exempted Village), Warren Butler (New Albany Plain Local Schools), Jim Byler (Cardinal Local School District), John Cooper (Clermont Northeastern LS), Jeremy Daniels (Alexander Local School), Steven Heitz (Wapakoneta City Schools), Roger Huff (Beavercreek City Schools), Lloyd Kennedy (Highland County Board of MR/DD), Daniel McClintock (Brunswick City Schools), Bryan McCollum (Alexander Local School), David Osborne (Eastern Local School), David Reveal (Southern Hills JVSD), Randall Schneider (Portsmouth City School District), Dwight Shrigley (New Albany Plain Local Schools), John Wolf (Columbiana County Board of Dev Disabilities), Rusty Yarman (Northwestern Local SD)

◆ BOC Level-1 Graduates - Kent State University ◆

May 2009 - Nov 2009

OPFMA Board of Trustees and the Administration Congratulates the Graduates and Wishes Them Success!

To the BOC students that have still to make up for some of the BOC classes - We wish them success in their study efforts, and OPFMA continues to offer individual assistance as needed. Contact us if you need any assistance!

OPFMA also praises and recognizes Facilities' efforts that, regardless of the unmatched economic stressful times, made a priority of training and certifying their employees to keep pace with today's technology and higher standards!



The BOC Graduates in alphabetical order and their Facilities:

Randy Abramczyk (Penta Career Center), Timothy Beard (Stark County Board of MR/DD), Curt Brown (Campbell City School District), Chuck Burns (Crestwood Local School), Scott Centea (KSU - Office of the Univ. Architect), Gary Curfman (KSU-Student Rec. & Wellness Center), Mark Damon (KSU - Office of the Univ. Architect), Joseph Dedor (Lakewood City Schools), Ken Deidrick (Black River Local School District), Mary Dunn (Lakewood City Schools), Arnett Gregory (KSU-Student Rec. & Wellness Center), Joe Kmitt (Black River Local School District), Russell Kuse (Kent State University), Todd Mcdavitt (Black River Local School District), Doug Neading (Sandy Valley Local Schools), James Rankin (NEOUCOM - Campus Operations), Ben Roosa (Crestwood Local School), Lonnie Scarlett (Kent State University), John Schwaben (Kent State University), Jim Smith (Perry Local School District), John Thomas (NEOUCOM - Campus Operations), Geoffrey Thompson (Bedford City Schools District), Robert Winkler (Kent State University), David Wood (Tuscarawas Cty Bd/MRDD)

Establishing a Building Enveloping Maintenance Plan To Reduce Energy Loss

Eric J. Seaverson, P.E. - StructureTec Corp

Introduction

New and existing buildings are notorious for leakage. In the form of water leakage, moisture within the systems can migrate to the interior, deteriorate components, and reduce insulating values. In the form of air leakage, openings in the building envelope systems are sources of direct energy loss. Implementing an inspection and maintenance program to prevent and reduce leakage can provide significant savings. Additionally, replacing inefficient systems with newer technologies, such as windows, can also increase overall energy efficiency.

Sources of Energy Loss

In general, energy loss in the building envelope is typically

attributed to various sources including air leakage, wet insulation, and thermal bridging.

Air Leakage

To prevent un-tempered, exterior air from entering the interior spaces, building mechanical systems are typically balanced to create a positive pressure (i.e. more air is supplied to the interior than exhausted, pushing air out through openings in the building envelope). Although this is a common practice in the building industry, openings in the building envelope can allow significant amounts of air to exit the building, drastically increasing heating/cooling loads. Common air leakage paths through the building envelope include around and through windows/doors, gaps at

Establishing a Building Enveloping Maintenance Plan To Reduce Energy Loss

(Continued on Page 5)

transitions between walls and floor/roof levels, transitions in wall system types, and structural penetrations through the wall system.

Wet Insulation

Moisture within building envelope components, such as insulation, not only leads to premature deterioration of the material, but also decreases the R-value and thermal efficiency of the overall building. Building envelope components can be exposed to moisture from various ways, including condensation and direct water leakage through the building envelope.

Due to budget constraints, and the “out of sight out of mind” concept, roofs are one of the most commonly neglected building envelope components. That said, roofs are also a very important components for preventing moisture from entering the building and thermal efficiency. Moisture in insulation significantly decreases the R-value of a roof system. The moisture can be from condensation within the roof section or bulk water migrating below the membrane. Although some roofs allow leakage due to age and lack of maintenance, the majority of water migrating below the membrane is typically caused by improper and/or unreliable detailing.

Thermal Bridging

Although air movement transports cold air into or warm air out of a building, thermal bridging through the wall system can increase the load on the mechanical system. Thermal bridging consists of temperature gradients through components (such as cold exterior air cooling a window frame, which then cools interior air). Although thermal bridging is typically only attributed to components in the wall system that are exposed on both the interior and exterior, such as window frames, thermal bridging also occurs in the “field” of the wall system.

Other than windows, the wall system itself can attribute to thermal bridging heat losses/gains. Fiberglass batts inserted in the wall cavity between steel studs are used to insulate the wall. However, the insulation is inserted between the steel studs, breaking the continuity of the insulation. Because the steel studs extend from the exterior (cold) side of the wall to the interior (warm) side of the wall, thermal bridging occurs.

Identifying Energy Loss

Infrared scanning technologies have proven to be a beneficial tool to identify areas of energy loss in the building envelope. Infrared scans can identify air leakage, wet insulation in a roof (and some wall systems), and significant thermal bridging. Although a valuable tool, scanning is not merely looking through a camera. Thermal images must be interpreted by trained thermographers

(infrared camera technicians) and knowledgeable building envelope professionals to determine what the images are actually indicating. For example, “reflections” of apparent heat loss on a surface may provide a false-positive.

It should be noted that infrared scanning is limited to specific types of systems/components, mostly barrier type systems that do not include a cavity between the exterior “shell” and the back-up wall systems (such as brick veneer). With a cavity system, air leakage may dissipate behind the face shell / veneer and not be identified by the infrared camera.

Secondary techniques for identifying areas of air leakage include visual surveys, pressurization of the building, and use of smoke pencils.

In some instances, openings in the building envelope are very obvious. Removing ceiling tile typically reveals relatively large openings that were left from the time of construction.

Following identification of larger air leakage paths, the use of smoke pencils can assist with identifying smaller air leakage paths, for example around windows.

Although infrared scanning and smoke pencils can identify areas of air leakage, they do not identify the actual cause of the leakage. Additional evaluation and investigation may be necessary to determine the cause(s). For example, an infrared scan may indicate wet insulation, but will not determine why the insulation is wet. Also, air leakage may be identified by scanning or smoke pencils, but does not indicate the breach in the air barrier system. Determination may require destructive testing and exploratory openings in the systems to review concealed components

Establishing a Maintenance Program

In order to start a maintenance program, the building envelope must be as functional as possible.

Depending on the existing conditions, the first step of the process may vary from a first year of maintenance to an extensive capital project. An initial capital project may consist of a complete roof replacement, sealing significant amounts of openings in the backup wall construction, replacing windows, etc.

Once a functional and relatively efficient system is established, a periodic maintenance plan can be established. Typical items of the plan include:

- Visual survey and repair of deterioration and openings in roofs (annually).
- Infrared survey of roofs to identify wet insulation (every five (5) years).

(Continued on Page 7)

Establishing a Building Enveloping Maintenance Plan To Reduce Energy Loss

(Continued from Page 6)

- Visual survey wall system components (annually):
 - Sealants in walls system, window perimeters, etc.
 - Window glazing gaskets.
 - Cracks and openings in the wall system components.
 - Interior survey of openings in wall system (above the ceiling).
- Infrared survey of wall system components, when applicable (every five (5) years),

Replacement Windows

Window technologies have made significant advances to increase the energy efficiency of windows. That said, although the increase in R-value is relatively significant, the overall R-value of windows remains low compared to an average wall system.

Some of the recent advances include bar-type thermal breaks and warm-edge insulated glass units. Solid plastic thermal breaks in frames have been further advanced by using two (2) plastic bars with an air gap between.

The air gap is less conductive than the solid plastic.

Although insulated glass units are generally efficient, the majority of thermal loss is due to the metal spacer. Reductions of thermal bridging have been obtained with composite and plastic spacers.

In some instances, such as single-pane window systems, the energy savings from replacement is obvious. However, the energy savings and corresponding pay-back duration of replacing existing windows with insulating glass units may not be apparent. A system analysis, including an assessment of air leakage, should be performed.

Conclusion

Energy losses from air leakage, wet insulation and thermal bridging can be significant. In general, the greatest energy loss is typically due to air leakage. Maintenance programs must be developed, and carried out, to minimize energy loss. However, the first step to establishing a maintenance program is to create functional systems.



Hamilton County's Facilities Department *Recognized as a Leader in* Energy Management and Sustainability

The publication *Buildings* has recognized the Hamilton County Facilities Department in its September 2009 edition as a Leader in Energy Management and Sustainability.

The publication recognizes Hamilton County and eleven other organizations in its "Who's Who 2009." The publication cites these organizations for "practices in energy management and sustainability that have resulted in significant reductions in energy usage and operating costs."

County Facilities earned recognition by taking action to reduce its environmental impact while lowering costs.

"Hamilton County Facilities reduced its greenhouse-gas emissions by 2,715 tons in 2008"- says Ralph Linne, County Facilities Director. "This is a seven percent reduction compared to our base year of 1997 for buildings under control of the facilities department."

Since 1998, Hamilton County's efforts towards energy reduction have saved an average of \$364,000 annually – approximately \$4 million total.

Actions County Facilities has taken to incur these savings in energy include:

- Conducting a monthly review of electric, gas, and water usage.
- Eliminating inefficient use of energy systems.
- Scheduling night and weekend setback in all buildings where tenants are not using the space during those times.

County Facilities continues to explore additional options for using energy wisely and reducing costs. Linne would like to use the savings that result from the energy program to hire a full-time energy manager.

"This recognition is a great honor for all of the employees in the Facilities Department," says Linne. "I am proud of my staff. This shows the taxpayers of Hamilton County that they are receiving the highest quality of work for their taxes."

To read the *Buildings* article, please visit this link:

<http://www.buildings.com/Magazine/ArticleDetails/tabid/3413/ArticleID/8809/Default.aspx>

At this link, the article titled, "Reducing Use and Waste" provides more detail about Hamilton County's efforts.



What is Scale Costing You?

Dan Farmer - Commercial Parts & Service

In one form or another, most building operators have to deal with the issue of scale buildup. Whether it is larger systems like your water main or boilers, or smaller systems like combi-ovens and steamers in your kitchens, scale costs you money.

For the purpose of this article, I'm going to focus on your commercial kitchens and the costs incurred from scale build-up.

Most operators deal with scale in a reactive fashion. When the personnel that operate the steamers, dishwashers or other water-using equipment complain about performance of the equipment, you then are called into action to deal with the problem. The problem, more often than not, is scale-related. A scaled-up water level probe, scaled-up heat exchange tubes, a drain valve clogged with scale.... The list goes on and on.

Dealing with scale issues in this manner is the worst-case scenario!

- The downtime caused by scale issues typically takes down the piece of equipment for a day or two, costing your kitchen operation valuable product and adding additional stress to your foodservice team. Not only do you lose profits, but you may have personnel working overtime to make up for the lost production from the equipment being down.

- Once you have a scale issue, the scale will affect more than just the one area that has the problem. Often, the scale will reduce the life of the equipment by causing thermal stress to the unit due to having to push the heat through the scale. Breaking the scale off can clog internal plumbing, foul drain valves and potentially cause corrosion from the chemicals used to remove the scale. If you've ever had to replace a boiler, you know they cost upwards of \$3,000.00.

- Did I mention chemicals? Try promoting yourself as a "green facility" while you dump hundreds of dollars of caustic chemicals down the drain trying to get rid of scale.

- Possibly the biggest reason that this is a worst-case scenario is due to the fact that, while the scaled condition exists, you have to use much more energy to achieve the same heat transfer that would be expected in a clean condition.

Let's use a simple equation to illustrate the costs of running a system in a scaled state.

For the purpose of this exercise, we have to assume the following:

- Commercial Electric rate in Ohio (www.eia.doe.gov) = \$0.096/kWh
- Electric Steamer Annual Energy Consumption = 21,800 kWh
(http://www.fishnick.com/equipment/techassessment/8_steamers.pdf)

Based on these assumptions, it costs \$2092.80 a year to operate a typical steamer.

Now, let's run some energy usage numbers based on the U.S. National Bureau of Standards for scale and how it affects heat transfer:

- 1/2" of scale = 70% more energy usage = **\$1464.96 more per year**
- 3/8" of scale = 55% more energy usage = **\$1151.04 more per year**
- 1/4" of scale = 39% more energy usage = **\$816.19 more per year**
- 1/8" of scale = 20% more energy usage = **\$418.56 more per year**

So you can see..., scale costs your building a lot!

Add up the costs of replaced parts, lost profitability, increased labor costs and energy usage and you can easily be spending thousands more per year.

The worst part about these losses is that most of them are not seen in your quarterly reports as "scale issues". They are simply thought of as a cost of doing business.

It doesn't have to be this way.

Be proactive with your water-using equipment!

There are more scale-prevention technologies out there than I have time to list, but employing a preventative measure can surely save you money in the long run if you have the foresight to make the up-front investment.

You've got a great team of vendors associated with OPFMA (http://www.opfma.org/assoc_members_page.htm) who are ready to help you evaluate your scale issues and provide common sense solutions that can deliver a timely ROI.

From The Church Bulletin:

- The Fasting & Prayer Conference includes meals.
- The peacemaking meeting scheduled for today has been canceled due to a conflict.
- Miss Charlene Mason sang "I will not pass this way again," giving obvious pleasure to the congregation.
- The church will host an evening of fine dining, super entertainment and gracious hospitality.
- For those of you who have children and don't know it, we have a nursery downstairs!



Merry Christmas and a Very Happy New Year to You All!

2010 Board Meetings Schedule:

Feb 24th
 April 21st
 June 23rd
 Dec 1st

Board Meetings Host

M.E. Companies
 635 Brookside Blvd.
 Westerville, OH 43081

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Phone - Conferences

Conf Comm. - Jan 13th
 Board Session - Jan 27th
 Phone - Conf as needed

Conference Committee

Feb 24th
 April 21st
 July 28th
 Sept 1st
 Oct 24th

2010 Conference & Trade Show
Oct 25th & Oct 26th

For newsletters' archive
 visit our website!

www.opfma.org

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Note from the Editor:

Dear reader, OPFMA publishes the "SpotLight on Maintenance" for your benefit; to serve better your interests - your feedback is of a paramount importance!

Suggestions - Sharing Experiences - and Constructive Criticism! Your contribution could help by adding to the newsletter topics and ideas that are of special interest to you!

Let your voice be heard - Just drop a note at: editor@opfma.org or visit our web site and click on "TELL ME MORE" - I would be happy to bring your ideas in The SpotLight!

Thank you,
 Alex

Publication and Submission Information

"Spotlight on Maintenance" is the official publication of the **Ohio Public Facilities Maintenance Association**, a 501(c)(3) not for profit organization for educational and professional development of public facilities maintenance employees. It is published quarterly and distributed in the second half of the month of March, June, September and December. A special edition would be added as events dictate. All materials published are copyrighted. The editor/publisher is Alexandra Schneider.

Deadline for submission of articles and photos is the first day of the month of publication.

All documents for submission must be submitted in Word format and sent as an email attachment.

All photos must be in JPEG or TIFF format and sent as an email attachment.

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