



NEWS

Eastern Michigan Chapter *
http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 15, Issue 4

Plumbing Design Classes

Date: Tuesday, December 13, 2011
Where: Plumbing Industry Training Center
SEE map on back page

No Code Class This Month

DINNER
5:30 - 6:00 PM

Cost: ASPE, ASSE, MBPA Mbrs: NC
 Non-members: \$18.00 FOR DINNER

DESIGN CLASS
6:00 - 8:00 PM

Topic: Ultra Pure Water

Speaker: Chris Yarima
 Application Specialist - Millipore
See page 3 for program & bio

See the full event schedule on our web site.

REGISTRATION REQUIRED
 RSVP by the **Friday** prior
 to day of class to:

Dann Holmes, Director/ Chapter Affiliate:
dann.holmes7@gmail.com
 (248) 939-2476

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From Joe Hernandez, CPD President Of EMC ASPE



Happy Holidays and Season's Greetings!
 Our November's meeting at the MASCO Facility was just as expected, terrific! We had over 50 members in attendance and all got a chance to see Richard Manoogian's private art collection. It was spectacular and the evening presentation on Green plumbing fixtures proved to be both interesting and enlightening. I want to thank the Burke Agency for their gracious hospitality and generosity by sponsoring the

entire evening.

Our December meeting is on the 13th and it comes a week earlier than our usual 3rd Tuesday of the month. It is solely due to the closeness to Christmas. We will be back to our usual routine in January. Our December program will be on the production of Laboratory Grade Pure Water and the system components. Our presenter for the evening will be Mr. Chris Yarima of Millipore. He is a seasoned professional on the subject and can certainly answer all your questions and provide design solutions you may need advice on.

Our ASPE Society book bundles are still on sale and come to the chapter at an incredibly discounted price. There is a flyer in this newsletter to give you instruction on how to purchase the bundled books.

You may have noticed that we have not been conducting our Data Book Sessions prior to the general membership meetings. There two reasons, first availability of the instructor and second, these sessions were set in place to prep for the CPD class. Well, we decided to have a two half day workshops in the spring to get all ready for the CPD exam. Details are still being worked out but it will be offered to the entire membership for a very small cost that will include the study guide.

Did you find all 10, the 10 missing things from our photo contest? Did you send it in? Well if you did and are selected, your name will be published in the January Newsletter. The Plumbing Design wheel for the successful entrant will be presented in January. Too easy you say, wait till the next photo comes out! January's issue will contain the next Photo Contest.

This month's AE highlight is the Detroit legacy firm, SmithGroup-JJR, which is the oldest continually operating architecture and engineering firm in the U.S., originally founded in 1853. Their feature page is nestled in the next few pages so please take time to view their rich history. The director of the mechanical engineering group is Mr. David Kistler, P.E., and is an experienced Mechanical Engineer with SmithGroupJJR who has worked on a

continued on page 4

* Chapters are not authorized to speak for the Society.



SmithGroupJJR is an international architecture, engineering, interiors and planning firm specializing in the design of health, learning, science, workplace, and urban environments. The principles that have guided us over 158 years of practice - a commitment to design and performance excellence and unwavering service to our clients - have helped to make us one of the most recognized design firms. We have been selected again and again by the world's leading institutions to create spaces that are inspiring, technically advanced, and environmentally sustainable.



SMITHGROUPJJR
www.smithgroupjjr.com

December Tech Program

Ultra Pure Water



An understanding of the design requirements for the production, storage and distribution of purified water in laboratory, hospital and industrial settings. It is important for anyone in the pharmaceutical/biotech/academic community that uses purified water to get a good understanding of how water is purified.

To understand this, we will discuss; where water is used in the Pure Water Industry, water quality standards, the main types of contaminants, and the units and methods used to measure them.

From there we will discuss the technologies used in most water purification systems including; multimedia, carbon, softeners, depth and screen filter, reverse osmosis, electro-deionization, ion-exchange, ultra filtration, and the use of ultraviolet light.

The presentation will finish by reviewing the importance of using a combination of technologies to optimize the performance of a water purification system, key design considerations and validation.

Chris Yarima has been with Millipore for 18 years, has performed as an Application Specialist for 16 years, and held the previous position of Service Engineer for 2 years. Additionally Chris has 10 years Navel Service Prior to working with Raytheon.

Notices

2012 ASSE ANNUAL MEETING & AWARDS BANQUET

To be held Saturday, January 28, 2012, at the Shriners Conference Center - 24350 Southfield Road, Southfield, MI 48075. There will be an open bar, dinner and entertainment. Keynote speaker Jim Kendzel, MPH, CAE and Executive Director of ASPE. Topic: A Blueprint for Long Term Sustainability. Also, the John E. Matthews Scholarship Raffle will take place and winnings include an Apple Ipad2 (16G), and two 8 in. Vizio Tablets with WiFi. Contact any ASPE EM board member for tickets. See page 15 of this publication to view the invitation. \$10 per ticket / 3 tickets for \$25 / 7 tickets for \$50

ASSE IS ACCEPTING APPLICATIONS FOR THE ALFRED STEELE SCHOLARSHIP

The Alfred Steele Scholarship is awarded to full-time students enrolled in an engineering degree program at a college, university, or technical school and is limited to ASPE members and their immediate families. The deadline to submit application materials is January 31, 2012. Contact Stacey Kidd with any questions @ (847) 296-0002.

TRAINING CENTER GIVING ASSE BACKFLOW RE-CERTIFICATION

Class offered to any members who are eligible. If you're interested, please call the Training Center and get your name on the sign-up list for the next class.

MED GAS INSTALLERS CERTIFICATION

Most members' Installer's certs will expire before the next Med Gas Standards are issued in 2012. Before your Installer certification expires, you need to apply for an extension with the NITC. Extension forms are available at the Hall and Training Center.

Past President Report

John Nussbaum, IPP, FASSE



To All Plumbing Industry Professionals: Recently the American Society of Sanitary Engineering (ASSE) released 4 updated ANSI Approved RP/DC Backflow Standards.

(1) ASSE Standard #1013-20011 ANSI Approved August 2011 Performance requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers.

(2) ASSE Standard #1015-20011. ANSI Approved August 2011 Performance requirements for Double Check Backflow Prevention Assemblies.

(3) ASSE Standard #1047-20011. ANSI Approved August 2011 Performance requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies.

(4) ASSE Standard #1048-20011. ANSI Approved August 2011 Performance requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies.

These Standards are pictured and explained in the July-Sept. 2011 issue of Plumbing Standards titled "Fire Suppression Issue •BACKFLOW PREVENTERS & fire protection systems •HOME FIRE SPRINKLERS-the standard for home fire safety •FIRE STOPPING-special inspection growing" This is an official publication of the American Society of Sanitary Engineering. The aforementioned publication in my opinion should be read and kept for its updated content and analysis of these important Backflow Standards. Paul Bladdick's articles titled "Super Standards" and "Green Codes" are a must read for everyone connected to the plumbing industry. Other ASSE Standard information may be seen on pages 25, 26 & 27. Jim Kendzel, MPH, CAE, Executive Director and CEO of the American Society of Plumbing Engineers, has been appointed to the ASSE Standards Committee. It has been brought to my attention that an agreement between ASSE and IAPMO has been reached and when current inventories of the series 5000 have been depleted the newly printed copies will be labeled ASSE/IAPMO Series 5000, no matter where they go in the country they will be mailed from ASSE in Ohio. ASSE Standards can be purchased from ASSE as a single copy or in groups. The Plumbing Industry Training Center in Troy, Michigan has a complete set of ASSE Standards and the ASSE Michigan Chapter set is also there. MCA-Detroit also has a complete set in John Nussbaum's office, which are available to look through at your convenience. John Nussbaum would order any of the ASSE Standards for you if you desire to have them in your office. Extra copies of Plumbing Standards Magazine are over at the Plumbing Industry Training Center. Keep in mind that ASSE Standards are ANCI approved consensus Standards. The Plumbing Industry throughout the world has recognizes ASSE's motto of "Prevention Rather ten Cure".

Sincerely,
John R. Nussbaum, IPP, FASSE

From Joe Hernandez

continued from page 1

variety of facility types including education, research and development, healthcare and office buildings. He has been responsible for comprehensive mechanical designs including fire protection, plumbing, HVAC, controls system engineering, mechanical specification writing, code research, smoke control engineering, load calculations, acoustics, energy usage calculation, mechanical space planning, equipment selection, checking, coordination and construction observation. With his 20+ years of experience, Dave has developed his ability to coordinate with clients and project team members from other disciplines. As a Chief Engineer he also supervises a group of engineers, designers and drafters in the SmithGroupJJR Learning Studio.



Currently Dave is working on projects such as the Indiana Wesleyan University Academic Building #2 in Marion, Indiana; Oakland University Human Health Building in Rochester, Michigan; University of Michigan – Flint; Murchie Science Building Renovation in Flint, Michigan; Michigan State University Plant Sciences

Expansion in East Lansing, Michigan and the Bowling Green State University McDonald Hall Renovation Feasibility Study in Bowling Green, Ohio. Dave also has experience on the Indian Springs MetroPark James Clarkston Environmental Discovery Center in White Lake, Michigan, which won second place for the National American Society of Heating, Refrigeration and Air Conditioning Engineering (ASHRAE) Technology Award in 2008. He has a Bachelor of Science in Mechanical Engineering from the University of Michigan, 1988 and Bachelor of Arts in Physics and Mathematics from Albion College, 1987. He is a Professional Engineer - Mechanical in Michigan, LEED Accredited Professional and an active member of the American Society of Heating, Refrigerating and Air Conditioning Engineers.

We will continue to bring awareness to the pride of Southeastern Michigan and feature the AE firms that are responsible for building America. The Eastern Michigan Chapter wishes all a wonderful holiday and a prosperous and happy New Year!

Your president,
Joe Hernandez, CPD



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Affiliate Liaison Report

Dann Holmes



My "Santa" hat is off to MASCO and the Burke Agency for their outstanding hospitality during our November 8th E MI Chapter of ASPE meeting. Because of the number of attendees (60), our escort split us into two groups. She gave each group a personal tour of the private Manooagian artwork collection on display throughout the MASCO facility.

It was wall-to-wall awesome, larger than any I've seen in a single location. If you're lucky enough to work in one of the cubicles on the upper floor, you're given an opportunity to choose your favorite piece of artwork and request to have it displayed in your work area! How cool is that?

Jeremy Cantor, commercial sales manager for the Delta Faucet Company, gave an informative presentation titled Commercial Faucets: Contributions to Water Conservation, Infectious Disease Control, and Emerging Innovations. Read more about Jeremy's presentation in the VP Tech section of this newsletter written by Ed Hawley, CPD. Ed always finds a way to summarize an hour, or longer, presentation into a page or two!

In addition to the reps and manufacturers who have stepped up their efforts to support our chapter this year, there's more!

Be sure to purchase tickets for the Navien NR-240A Tank-less Water Heater raffle donated by Balfrey-Johnston, (313) 864-2800, before we draw the winner during our December 13th meeting. The cost is \$5 per ticket / 3 tickets for \$12 / 7 tickets for \$25 (my favorite!). Call George now and invest in us. This gift is too heavy for Santa's elves.



What better way to warm your family while supporting the E MI Chapter of ASPE?

To increase your odds of winning, you can start buying tickets for our ASSE Michigan Chapter, John E Matthews Scholarship Fund Raffle. John Nussbaum will explain more information on the scholarship in his article. On January 28th, 2012, we'll be drawing three lucky winners. Load up! We're giving away the following;

Grand Prize – Apple iPad 2 – 16GB
Two Additional Prizes – Vizio 8" Tablets w/ Wi-Fi



Tickets are available from any ASSE MI Chapter Board Member, they are \$10 per ticket / 3 for \$25 / 7 for \$50 (my favorite again!). To make it easy on you, call me w/ your RSVP's and ticket order(s). I'll deliver your stub(s) and collect your money. This way, it looks like I'm really moving them out. Sales people love to do this. It's in our blood.

We're still looking for table-top sponsors for our December 13th presentation on Ultra-Pure Water, presented by Chris Yarima, application specialist for Millipore. I expect to hear from our reps who deal in this arena soon. Bring friends and money to this meeting. Don't forget a truck; you might need it to bring home a new tankless water heater! Thanks to everyone for your support this season, for those of you who are thinking about supporting us and haven't yet, we're here and we don't bite.

In closing, I'd like to wish a Merry Christmas and/or Happy Hanukkah to everyone during this Holiday Season.

As always, I can be reached via e-mail at dann.holmes7@gmail.com or by cell phone at (248) 939-2476.

Thank you,

Dann Holmes

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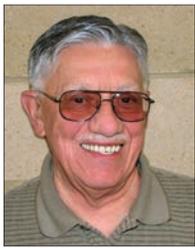
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VP Technical Report

Edwin Hawley CPD



On Tuesday, November 8, 2011, ASPE Eastern Michigan Chapter, held their Design Class meeting at the MASCO Corporation Headquarters in Taylor, Michigan. Speaker Jeremy Cantor, Commercial Sales Manager of the Delta Faucets Company presented:

The Commercial Faucets; Contribution to the Water Conservation, Infectious Disease Control, and Emerging Innovations.

Delta Faucet is the EPA, Water Sense 2011- Partner of the year.

According to the U.S. Green Building Council Source, Buildings in the U.S. account for the single largest contributor to carbon dioxide (CO2) accounting for total of 39% emissions and the following:

- 36% of total energy use/ 65% of electricity consumption
- 30% of greenhouse gas emissions
- 30% of raw material use
- 30% of waste output
- 12% of potable water consumption

“The ultimate “GREEN” approach is that every new building coming out of the ground today be built green and every existing building be retrofitted, whether it be an office building, a school or your own home. Buildings offer an immediate measurable solution for mitigating climate change – and we don’t have time to wait”.

NAHB statistics

- 55% of consumers willing to pay more
- Green building to grow to 5-10% of housing starts in 2010, (\$19-38 billion).

U.S. Green Building Council statistics

Interior Design statistics

AIA/Mayors initiative

Legislation

Cleantech investments

EPA data follows:

- 70% of the earth surface is covered with water, yet only 1% is available for human consumption.
- The average family of four uses 400 gallons a day, indoor on the following.
 - ◇ Toilets.....26.7%.....107 gallons
 - ◇ Clothes washers.....21.7%87 gallons
 - ◇ Showers.....16.8%.....67 gallons
 - ◇ Faucets.....15.7%.....63 gallons
 - ◇ Leaks.....13.7%.....55 gallons
 - ◇ Other.....5.4%21 gallons

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INTRODUCING

BASYS™





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Basys™ offers a truly innovative platform of modular electronic sensor faucets for a broad range of commercial applications. Backed by a century of experience and grounded in proven Sloan technologies, the platform delivers revolutionary efficiencies in service and maintenance. With five body types, multiple power harvesting options, and advanced programmability and user controls, Basys provides the ultimate experience for users and plumbers alike.



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VP Technical Report

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(EPA data continued)

- EPA states that by year 2013, at least 36 states are anticipating local, regional or statewide water shortages.

Neoperl “LEED Version 3.0 – Launch 04/27/09”

Certified building labeled

- Platinum.....80 + points
- Gold.....60 points
- Silver.....50 points
- Certified (base).....40 points

Applications	Points
Sustainable Sites	up to 26
Energy & Atmosphere	up to 35
Indoor Environmental Quality	up to 15
Materials & Resources	up to 14
Water Efficiency	up to 10
Total	100 Base Points

Additional Points for 2009	Points
Innovation in Design	up to 6
Regional Priority points	up to 4
Total	10 Additional

Intent

Maximize water efficiency within buildings to reduce the burden on the municipal water supply and wastewater systems.

Requirements

Employ strategies that in aggregate use 20% less water than the water use baseline calculated for the building (not including irrigation).

Impact On Flow Rates	EPAct	20%	30%
Showerheads & hand showers	2.50 gpm	< 2.00 gpm	<1.75 gpm
Lavatory & kitchen faucets	2.20 gpm	< 1.75 gpm	<1.50 gpm

System

The system is based on points.

Commercial Fixtures, Fittings, and Appliances	Current Baseline
Commercial toilets	1.6 gallons per flush (gpf)* Except blow-out fixtures: 3.5 (gpf)
Commercial Urinals	1.0 (gpf).

Commercial Lavatory (restroom) faucets 2.2 gallons per minute (gpm) at 60 pounds per square inch (psi)
Private applications only (Hotel or Motel guest rooms, Hospital patient rooms)
0.5 (gpm) at 60 (psi)**
all others except private applications.
0.25 gallons per cycle for metering faucets.

Commercial pre-rinse spray valves (for food service applications) Flow rate < 1.6 (gpm) (no pressure specified; no performance requirement)

Source: USGBC LEED-NC 2009 (updated 10/20/10)

**In addition to EPA requirements, the American Society of Mechanical Engineers standard for public lavatory faucets is 0.5 gpm at 60 psi (ASME A112.18.1-2005). This maximum has been incorporated into the national Uniform Plumbing Code and the International Plumbing Code.

HEALTH CARE FACILITIES

Infectious Disease Control Growing Concerns and Solutions

FACTORS THAT ENHANCE COLONIZATION AND AMPLIFY

BACTERIAL GROWTH:

- Warm water at (room temperature – 65 to 80 0F)
- Water stagnation (trapped droplets)
- Food (scale, sediment, biofilm)

The Solution:

- Laminar
- Screenless
- Antimicrobial

Smooth End Laminar Flow Spout Benefits:

- Low maintenance
- Reduce opportunity for bacterial growth,
- Preferred option for Healthcare applications
- Flow control in base of spout to minimize splashing
- Screen-less construction prevents lime build up.

How do they work?

- Attacks bacteria cell wall
- Interrupts cell metabolism
- Prevents bacteria reproduction

EPA

Registered for broad range of use including food contact, HVAC, building products, textiles, janitorial and sanitation products.

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VP Technical Report

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FDA

Listed under the FDA Food Contact Substance Notification for use in all types of food-contact polymers under ~ 21 CFR 176.170.

USDA

Listed on USDA list of non-food compounds maintained by NSF for food processing plants.

NSF

NSF 51 Certification for food processing/food service equipment.

NSF Standard 42 for water systems-carbon block filter system deemed approvable.

Flow Controller on spout.

Replacing the standard, with the Engineered Polymer units.

- Regular Male 15/16"-27,
- Regular Female 55/64"-27,
- Vandal proof Male,
- Vandal proof Female.

Faucets Handles

- Antimicrobial handles treated with silver ion-based technology.
- Helps prevent the growth of bacteria, molds and some viruses on treated surfaces.
- Choose handles with surfaces easy to reach and clean.

Hooded Drain Benefits

- Removable hood prevents splashing from inside the drain.
- Reduced opportunity for bacterial growth around sink area.
- Great option for Healthcare applications.
- ADA compliant models available.
- Holds up against harsh cleaners with Accelerated Hydrogen Peroxide (AHP) (commonly used in hospitals).

3-Position Solenoid Switch

Designed so Healthcare facilities can continue to follow infectious control procedures.

SWITCH SETTINGS

ON – Solenoid goes into continuous run so water lines can be flushed with high temperature water.

AUTO – Faucet functions according to regular setting.

OFF – Solenoid is blocked from operating so cleaning staff can clean sink without faucet operating.

Other Features to look for in Commercial Faucets

Faucet Construction

- Solid brass construction offers the best long term performance and value.
- Faucets with ceramic disc are the best quality as they offer an almost maintenance free solution for a lifetime of service.
- Some manufacturers offer cartridges with vandal resistant systems.

Continued on page 9



▶ What do the Beach Boys, Mickey Mouse, and T&S low-lead faucets have in common?

▶ They all got their start in California, and they all swept the nation. Although California led the way with the AB1953 legislation mandating low-lead faucets, it's only a matter of time until they are required in all states. And T&S is ready — all of our faucets are low-lead compliant and are available across the country. And, as always, T&S faucets are as rugged and reliable as they come, and meet the requirements of the Buy America Act. Contact your sales rep for more information.

Mickey Mouse® and the Beach Boys® are trademarks of Disney Enterprises, Inc. and Brothers Records, Inc., respectively, and T&S Brass has no affiliation with either such entity.



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to LEED
certification



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VP Technical Report

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Elements to look for when specifying two handle ceramic disk faucets

- Rounded one piece cast body reduces the area for harmful bacteria to grow.
- Color coded indexes on handles of the faucet.
- Accessibility standard ANSI A 117.1 of less than 5 lbs. of operating force.
- ANSI A 117.1 standard requires “no pinching or grasping”.
- ¼ turn ceramic disk cartridge.
- One piece cast brass deck – less room for bacteria to grow.

Elements to look for when specifying single handle ceramic disk faucets

- One-piece casting, solid, durable and extremely hygienic, no seams to clean.
- Ceramic disc cartridge
- ADA-compliant lever handle
- Availability in 4” and single hole mounts

Elements to look for when specifying single and two handle metering faucets.

- Vandal resistant brass handles activator
- Slow close cartridge
- Stainless steel anti-rotation locking pins
- Vandal resistant spout outlet
- Total flow that should not exceed 0.25 gallon per handle activation
- ADA compliant requires less than 5 lbs. of operating force.

Options for Service Sink faucet

- Top or bottom braces
- Integral service stops
- Integral checks – to prevent cross flow
- Multiple spout and outlet options
- 3 Vacuum Breaker options
- Adjustable Centers

SHOWERING

Water Efficiency, Performance and Safety

1. Showering is one of the top uses of residential water in the US.
2. Approximately 9-10 % of indoor water use.
3. Over 1.2 Trillion gallons of water each year.
4. U.S. EPA Water Sense program developing residential
5. showerhead specification.
6. Fully aware that performance & safety issues must be addressed!
7. Testing and research now underway in U.S., Canada, & Australia.

Showerheads Requirements

A. Pressure Compensation: adequate flow rate and user satisfaction in homes with low or varying water pressures.

B. Spray Pattern: water distribution within the discharge pattern.

C. Temperature Drop: the loss of heat as water droplets travel from the showerhead to user.

D. Effectiveness: the ability of a showerhead to perform its intended functions.

1. Removing soap and shampoo
2. Satisfactory shower experience
3. Without significantly increasing duration

E. Thermal shock occurs when unexpected surges of hot or cold water exit the showerhead.

F. Surges caused by pressure changes in the water supply line.

- Flushing toilet
- Washing dishes
- Washing clothes
- Watering the lawn

G. Older homes without anti-scald valves or new homes with valves not matched to showerhead.

H. Anti-scald valves compensate for pressure changes reducing discharge temperature fluctuation.

Thermostatic Valve Cartridge:

Works like a thermostat to control the temperature of the water. It uses a wax and a spring configuration to measure and monitor the temperature of the water and automatically adjust the water mix to maintain a more precise water temperature.

Dual-Function Thermostatic Valve Cartridge.

- Works like a thermostat
- Maintains constant temperature during a shower
- Not affected by changes in ground water temperature
- Independent volume control,
- Maximum flow for spa shower experience,
- Temperature can be set to remain consistent from one shower to the next.

As hot and cold water enter the chamber, the wax element within the Thermostatic Cartridge measures the temperature and adjust the mix to maintain a consistent temperature. A solid forged brass body encloses the Thermostatic Valve.

- EPACT '92 government-mandated flow levels are a 2.5 gpm. For showerheads, per the ASME A 112.18.1 standard.
- Water-Efficient Showerheads deliver a 1.5 gallons-per-minute shower. **A water savings of 36%.**
- The average person takes an eight-minute shower which corresponds to **20 gallons for a standard 2.5 gpm shower.**
- At only 1.5gpm., the Water-Efficient Showerhead uses only **13.0 gallons per shower a saving of seven gallons.** For a family of four taking one shower each day, that adds up to more than **10,000 gallons saved pr year.**
.....SAVES 55 BOTTLES OF WATER IN AN 8 MINUTE SHOWER!

Continued on page 10

VP Technical Report

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Showerhead Options

1.5 GPM. – 36% water savings from EPA standard

- Multi-Function
- Single Function
- Vandal & Suicide Resistant

A well furnished Shower

- Dual purpose ADA stainless steel grab bar and hand shower slide bar.
- 24” – 36” grab/slide bar
- Hand shower
- ADA compliant adjustable slide mechanism,
- 1.5 gpm. Hand shower
- Laser etched color index on shower trim plate

Electronic Technology for Commercial Building

Features to look for when specifying electronic metering shower systems:

- Push button electronic shower system
- Stainless steel cover with stainless steel Vandal resistant mounting screws
- Field adjustable initial shower time,
- Quick shut off feature
- Metal mounting box
- Maximum additional run time of 2 minutes
- Pressure Balance shower valve
- Hardwire and battery options

How do they work?

A plastic case with the following items:

- Display Screen, showing a display status of 0.1 thru 10.
- And Max. Run time (6 seconds to 10 minutes)
- With Up/Down, (Run-time Buttons)
- Battery clip, (attach to battery pack or hardwire Converter)
- Yellow wires,(attach to stainless steel buttons for starting)
- Red and Black Solenoid Wires, (attach to solenoid)

Most Popular Sensing Technology

The infrared (IR) technology Activates when an object is placed within a set proximity.

IR – Infrared

Technology used in short-range communication such as hand-free activated devices.

Electronic Sensing Device

A device that senses a user’s distance and activates.

Cross-Talk

Any signal or circuit unintentionally affecting another signal or circuit. For example, the IR from a faucet activating a towel dispenser that uses IR technology.

Other methods of sensing technology:

Triangulation - interprets the angle of returned light

to determine the presence of a use. Distances of 16” down to 8”.

- Has the ability to accurately sense the user’s distance, regardless of external factors such as light reflection, clothing color and texture, or dryness of one’s skin.
- A responsive four pulses per second provides a good balance of reaction time and battery conservation.

Triangulation Sensing Method Benefits:

- Enhances performance and functionality
- Eliminates reflection issues and “Cross Talk”
- Eliminates set-back restrictions with the sensor
- Increases activation response time
- “Cross-Talk”- Any signal or circuit unintentionally affecting another signal or circuit

Features to look for:

- One piece cast brass style body
- Longer reach spouts that can easily accommodate solid countertop installation
- Digitally adjustable sensor lengths and maximum run times
- Battery backups for hardwire applications
- Designed specifically for Hospital and Healthcare applications
- Features a touch pad control module allowing for the installer to set up the faucet to accommodate specific user preferences
- Hardwire or battery options
- Some controllers feature 6 different adjustment options, including a metering option that can contribute to LEED
- 3 position switch add-on option for flushing water lines

Making Adjustments – Controller Interface

- Programmable times and shutoffs (metering mode)
- Simple to use Menu makes it easy for user to adjustments

A Minimalist Design Approach by Delta Faucets.

Other trends in Commercial Faucets.

- Innovative hands free technology
- Faucets activates when hands enter a set proximity
- No optics, infrared, or eye to maintain
- 4” adjustable Sensing Fields
- The entire faucet acts as a sensor
- Battery & Hardwire options available

The Masco Headquarters experience was a delightful, starting with the evenings Power Point presentation that really held the 60 members attention, as the delivery was strong and right to the point. Thank You, Jeremy Cantor, for a job well done.

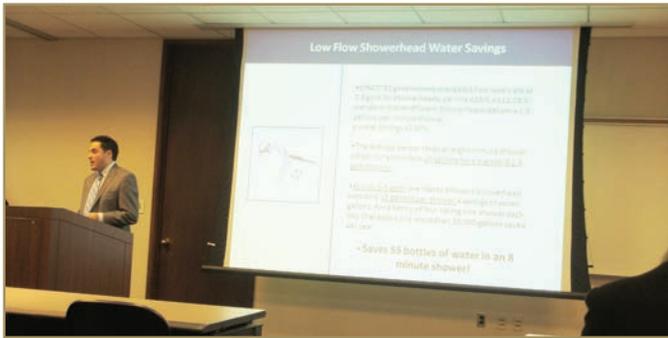
Thanks You to Masco Corporation and Burke Agency for putting on the Program. The invitation is out for another great turnout at the December 13th, 2011 Program, “Ultra Pure Water”.

Keep up good work and see all of you at the next meeting.

Ed, VP tech.

Photos from November 8, 2011

Program: LEED Plumb @ MASCO [Green Plumbing Fixtures]



Speaker Jeremy Cantor, Commercial Sales Manager with Delta Faucet



MASCO Corporation, Taylor, MI

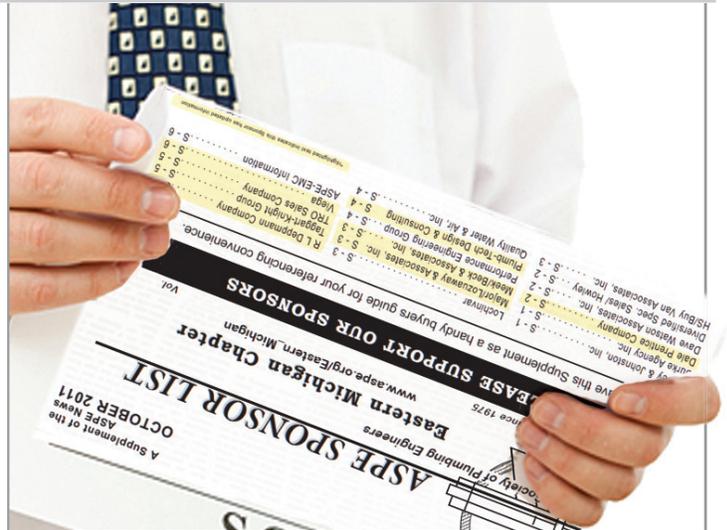
* Photos courtesy of Cindy Zatto

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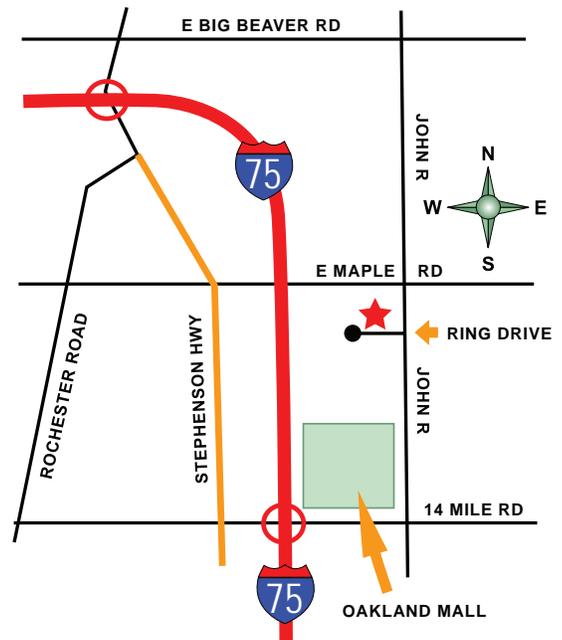
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