



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

www.aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 8, Issue 7

Plumbing Design Class

- Date:** Tuesday, Mar. 22, 2005
- Time:** 5:30 - 9:00 PM
Dinner & Class
- Cost:** ASPE & ASSE Members:
No Charge

Non-members: \$15.00
- Location:** PMC Detroit Offices
14801 W. 8 Mile Rd.
- Topic:** Replacement Standards
For ASSE 1016 & 1017
- Speaker:** Bill Hall, Chief Engineer
Leonard Valve Company
- SEE page 5
for speaker
bios
- Shannon Corcoran
Exe. Dir. / Standards Coord.
ASSE
- Ron George, CIPE/CPD
R. George Design & Consulting
- Sponsors:** Chicago Faucet Co.
Kohler Co.
Meek/Beck Associates, Inc.
V.E. Sales Company, Inc.

PLEASE CONFIRM
your attendance with
 Wes Patton, VP Tech:
 wpatton@ssoe.com
 (248) 643-6225 Fax

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PRESIDENT'S REPORT

Esteban Cabello, PE, CIPE

March is truly an exciting month. Spring is here, baseball is here, and March madness is here. ASPE is also here. We are in full swing and ready to offer two worthwhile events. The Night at the Races is coming as well as Dan Holohan. Dan's seminar is a "can't miss" event (the last time he was in town was 1991). The Night at the Races in Hazel Park will be a fun time for all. I would like to congratulate all of the award winners from the ASSE annual banquet. It was nice to see some of our members as award recipients (see related article and pics). This month's topic is a hot one. ASSE standard 1016 and 1017 will be discussed. Hot water mixing valves is probably one of the most incorrectly sized devices in the plumbing design industry. Unchecked, hot water can harm and/or kill people. This meeting is a must for installers, engineers, inspectors and facility personnel.

See you next time,
 Esteban

ASPE-EMC Members Honored



Joe Hernandez of SSOE was caught on camera in an emotional moment at the ASSE Annual Dinner as he was being presented with the John E. Matthews Engineer of the Year Award by last year's recipient Barry Pines of C & R Plumbing.

January 29, 2005 - St. John's Country Club—Over 100 people turned out for the ASSE Annual Awards Dinner. Great food and great entertainment made for a memorable evening. Award recipients were as follows: The Al Cohen Award for Plumbing Inspector of the Year was presented to William Weidendorf, City of Detroit inspector. The Larry Burkheiser Award for Backflow Prevention and Cross Connection Control was awarded to Michael Smith, Cross Connection Control Manager of Grand Traverse County. The John E. Matthews Award for the Plumbing Design Professional of the Year was presented to Joseph Hernandez of the S.S.O.E. firm.

continued on page 4

OOPS - We accidentally omitted DeBroka and Associates from the list of sponsors for the February meeting. We wish to thank DeBroka and Associates and Quality Water & Air, as well as all our regular sponsors, for their continuing support of our Chapter and programs.



ASPE-EMC
Night at the Races
April 8, 2005
Hazel Park Raceway

Don't Miss a GREAT TIME!

Tickets: \$25 per person / Table of 6 \$150

Private Room & Betting Window

Festivities Begin at 6:00 PM

Buffet Dinner - 6:30 PM

First Race Begins - 7:40 PM

For tickets contact

Wes Patton: Ph 248-643-6222 or wpatton@ssoe.com

Derek Brown: Ph 248-643-6222 or dbrown@ssoe.com

American Society
of
Plumbing Engineers

Eastern Michigan Chapter

2005 Technical Classes

Held monthly at the

(except where noted)

PMC of Detroit

14801 West 8 Mile Road

Detroit, MI 48235

March 22, 2005

Replacement Standards

For ASSE 1016 & 1017

April 26, 2005

Medical Gases

May 24, 2005

To be announced

ASPE News is published 10 times per year (September through May, plus one summer issue). Yearly advertising rates are \$250.00 per ad for members and \$300.00 for non-members. Insert advertisements are \$250.00 per newsletter for one oz., \$100 for every oz. over. Help Wanted ads, fifty words or less, \$100.00 per issue. For quarter-page and half-page product ads, please contact Mary Chapman. Checks should be made payable to ASPE E. Mich. Chapter and send check with inserts or ad to Mary Chapman. Circulation 400-Distributed to: Engineers, Contractors, Inspectors, and other industry professionals in Michigan. For contributing articles contact Mary Chapman, Newsletter Editor at: mary@pmcdetroit.com.

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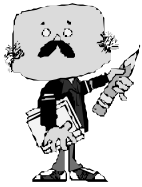
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Professor Plumber sez...

**Bill Grayzar, CPD
VP Education**

Fire Pump Installation and Recent Changes to NFPA 20

While again at the ASPE Convention in Cleveland, I attended a seminar on "Fire Pump Installation and Recent Changes to NFPA 20." For this month's article, I would like to touch briefly on NFPA 20 and the benefits and drawbacks to various types of pumps used in fire suppression systems.

NFPA 20 is the standard for the installation of stationary pumps for fire suppression systems. What is required from a fire suppression system? Fire suppression systems are used to protect lives and property against fire by supplying an adequate water supply to an automatic sprinkler or standpipe system. These systems are required to meet current building codes and owner's insurance requirements.

NFPA 20 is broken down into the following categories: Definitions, Centrifugal Fire Pumps, Positive Displacement Pumps, Electric Motors, Diesel Engines, Controllers, Pump Installation and Related Components, and Acceptance Tests and Maintenance.

When establishing a fire pump water supply, the following items must be considered:

- ◆ Where a fire pump is installed on a city main, a fire flow test per NFPA291 should be performed to determine minimum and maximum supply pressure as well as suitability of supply for the fire protection system.
- ◆ Where adequate city supply water is unavailable, a suction tank or pit should be installed per NFPA22.
- ◆ Tank sizing must consider 150% of the fire pump rated flow.

Requirements for fire pumps include:

- ◆ "Centrifugal fire pumps shall be listed for fire protection service."
- ◆ Pumps shall furnish not less than 150% of rated capacity at not less than 65% of total rated head. The shutoff head shall not exceed 140% of rated head for any type pump."
- ◆ FM and UL require that pumps have packing seals (ULC allows mechanical seals).
- ◆ Packing requires periodic adjustment and replacement as it hardens over time.
- ◆ The packing gland should be tightened until the seal drips 30 drips per minute. If the gland is tightened too much, the seal receives no lubrication and will burn.

- ◆ A jockey pump is required to maintain system pressure.
- ◆ A rated fire pump controller is also required.

The allowable types of fire pumps are Horizontal Split Case, Vertical In-Line, End Suction and Vertical Turbine.

The benefits to a Horizontal Split Case pump are that it is available in a wide flow and head range, it is serviceable without disturbing piping or driver, and it is available with an electric or diesel drive.

The drawbacks to Horizontal Split Case are that it requires a large amount of floor space, it restricts mechanical room layouts due to direction of rotation, and they are more difficult to service.

The benefits of a Vertical In-Line Pump are that it is compact, serviceable, tends to be more reliable, and is typically less costly.

The drawbacks to Vertical In-Line Pumps are that they are only available up to 1500 gpm; they are only available with electric drives; and they will require a suction strainer.

The benefits to End-Suction Pumps, in that they require only a moderate amount of floor space, are that they provide flexibility in the mechanical room layout, they are available with an electric or diesel drive, and they are serviceable.

The drawbacks to End Suction Pumps are they are only available to 1500 gpm, and their single suction design limits suction lift performance.

The benefits of Vertical Turbine Pumps are that they will operate under suction lift, they are available with an electric or diesel drive, and they are available over a wide flow and head range.

The drawbacks to Vertical Turbine pumps are they are more costly, and they are more difficult to service and install.

Typically, Vertical Turbine pumps are only utilized where a flooded suction cannot be maintained.

There are a wide variation of factors that must be determined on a job-to-job basis to determine the pumps that will best suit your application.

I hope you enjoyed this brief look at Fire Pumps. I will see you at the next ASPE Meeting. Please remember to sign-up for the upcoming ASPE Night at the Races on April 8th, 2005 and the upcoming seminar with Dan Holohan on Trouble Shooting Steam and Heating Hot Water Systems on April 28th, 2005

Bill

ASPE-EMC Members Honored *continued*



Top: George Johnston and
Cindy Zatto
Bottom: Esteban Cabello
and Vicki Hernandez

The Malcolm Wallace Award for Manufacturers Representative of the Year was awarded to George Johnston of Balfrey & Johnston, Inc. The L. Glen Shields Award was presented to Edward Lyczko, of the Cleveland Clinic and past ASSE International President (2003), for his many contributions for the safe handling of medical gases. ASPE-EMC president, Esteban Cabello, took this opportunity in front of an audience who shares organization members to honor Vicki Hernandez for her dedication in the design and production of the ASPE-EMC newsletter and website. Vicki felt it was time for a change after eight years and stepped down in late 2004. Congratulations to all the honored recipients!



Several ASPE-EMC board members as well as sponsors enjoyed the ASSE Awards evening which included a delicious dinner and live entertainment. Pictured left to right are Esteban and Indy Cabello with Barbara and Ron George.



Pictured right are Doug and
Patti Cryer



Pictured from left to right are
Jeff Johnston and friend with
Mary Ann and George
Johnston.



Pictured right are Steve and
Cindy Zatto

Dan Holohan's Troubleshooting Steam and Heating Hot Water Systems

Thursday - April 28, 2005
St. John's Banquet and Conference Center
22001 Northwestern Hwy, Southfield, MI
8:00 AM to 5:00 PM

Sponsors:

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person from the same company.

Cost to non-members:

Up to April 20, 2005 = \$150.00
After April 20 & at Door = \$175.00

Visit our website for a registration form at
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Questions? Contact Ron George at
rongeorge@charter.net

To become a sponsor or reserve a tabletop
please contact Ron George at
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SPEAKER BIOS

March 2005 Technical Class

Bill Hall, Chief Engineer Leonard Valve Company

Bill graduated from Roger Williams University in 1977 with a BS Degree in Mechanical Engineering. He has been working in the plumbing field for over 30 years. He spent a year and a half developing ball valves and actuators for the nuclear power industry and another seven years working at Jamesbury Valve Company. Bill has spent twenty six years at Leonard Valve Company, the first ten as chief engineer of development and the last sixteen as chief engineer of systems. His duties include trouble-shooting hot water systems and proper sizing of mixing valves. He is a member of ASPE, ASSE, IAPMO, ICC and a member of the Seal Control Board for ASSE. He has worked on several working groups in the development of new standards and the renewal of old standards.

Shannon Corcoran, Executive Director and Standards Coordinator American Society of Sanitary Engineering

Ms. Corcoran, in her capacity as Standards Coordinator, brings the ASSE working groups together and takes their drafts to the full Standards Committee. Shannon will be here on behalf of the standards dealing with the various types of temperature control mixing valves for tubs, showers, commercial showers and safety equipment such as eye washers, etc. She'll attempt to explain the new standards and how they should be applied and used in a plumbing system. Shannon will also attempt to reach out to the contractor, plumbing design professional and inspector so as to clear up the mystery between 1016 and 1017 standards and their use.

Ronald George, CIPE/CPD Ron George Design & Consulting Services

Ron has over 27 years experience designing plumbing systems and over 12 years experience dealing with model code organizations on codes related to hot water systems and scalding issues. He will speak on domestic hot water systems and the thermostatic and pressure balancing devices available to protect against scalding and thermal shock. Ron will also address the differences in the ASSE standards and the proper design applications for the devices meeting the ASSE standards that deal with mixing hot and cold water.

A great building must begin with the unmeasurable, must go through measurable means when it is being designed and in the end must be unmeasurable.

Louis Kahn

VP TECHNICAL REPORT

Wes Patton, GE

Hello everyone, we would like to thank George Johnston for an excellent presentation on Plumbing Specialties for the February class. Members that were not in attendance missed a very informative meeting, featuring a product showing with accommodating lecture. Our next class meeting will address ASSE 1016 and 1017 Complementary Standards. Board member Ron George, Mr. Bill Hall from Leonard and Ms. Shannon Corcoran from ASSE will address this topic. The sponsors of this event will be Kohler, V.E. Sales Company, Inc., Meek/Beck & Assoc. and Chicago Faucet. Please remember to mark your calendars for the April 26 when the chapter will have a session on Medical Gases, Vacuum Pumps and Anesthesia Gas Waste. This will be a well-planned class session that you do not want to miss. Other up and coming events to remember is the Night at the Races and the hydronics class. Please remember to pre-register for the classes.

See you in March,
Wes

BE AMONG THE FIRST...

The ASPE-EMC website has a new home on the national association's web server:

www.aspe.org/Eastern_Michigan

This address is case sensitive. When you visit us for the first time in our new location, bookmark the website for quick access and viewing convenience.

The Chapter e-mail, info@aspeemc.org, has been discontinued. E-mail addresses for all board members are listed on the newsletter and website. Please feel comfortable using them if you have any questions. The board is here to serve the membership.

With the February issue of the ASPE News, we started sending out e-mail notification and a link to the newsletter on the website. **Be among the first** to get the latest information or the most current newsletter issue by joining our growing distribution list. Your e-mail address will only be used for Chapter business. Just send an e-mail to mary@pmcdetroit.com to get added to the list.

FEBRUARY RECAP

In addition to an excellent speaker and program, our favorite caterer, Ginny, was back dishing up great food along with those big smiles thanks to our sponsors!

ASPE NEWS

American Society of Plumbing Engineers-Eastern Michigan Chapter

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