

February 2004



## Eastern Michigan Chapter

www.aspeemc.org

### Plumbing Design Class

**Date:** Friday, February 20, 2004

**Time:** 4:00-6:00pm  
Social Hour/Tour/Dinner

**Cost:** Adults: \$15.00  
Students/Children: \$10.00

**Location:** (map on pg. 3)  
Compuware Sports Arena  
14900 Beck, Plymouth

**Topic:** Snow Melting and Plumbing for the Ice Arena

**Speakers:** Darryl Boyce of ASHRAE  
John Cole, PE of Albert Kahn Assoc

**Date:** **Tuesday, February 24, 2004**

**Time:** 5:30 - 9:00 PM - Dinner and Plumbing Design Class

**Cost:** Members ASPE, ASSE: No Charge  
Non-members: \$15.00

**Location:**PMC Center at 14801 W. 8 Mile Rd.

**Topic:** Professional Plumbing Practices, Estimating and Test Taking Skills

**Speakers:** Daw Alwerfalli, Ph.D.,  
Lawrence Technological University.  
Cheryl VanHovel of HILTI

**Sponsors:** To be announced

***Please confirm your attendance through the web site at aspeemc.org***

## PRESIDENT'S REPORT

**Douglas W. Cryer, CSI CIPE/CPD  
President**

### Presidential Bullets



- First of all I hope everyone received our broadcast e-mail for the canceling of the January 27th class due to unpredictable weather conditions. As it turned out, the Detroit area in general, missed the large snowfall again. However, it was enough to cause havoc on the streets. Those of us who drive for a living were cautious. ***Now remember, the new date for the rescheduled meeting is February 24, 2004.*** We'll have the same topics as the former meeting. Perhaps a new speaker for the Fire Stopping portion, though. I think Ms. Cheryl VanHovel of HILTI will be able to enliven the presentation with her charm and knowledge of the product. Don't miss this.

- Speaking of 'don't miss', I hope everyone is planning on a night out with his or her spouse, children, girl/boyfriends (hopefully discretion will prevail as to whether to invite the wife or the girlfriend, just kidding Patti!) for our next actual get-together since December. I'm speaking of the second annual ASPE/ASHRAE meeting on Friday, February 20, 2004 at the Compuware Sports Arena at Beck Road and M-14. The meeting will commence at around 4:00 pm with some comments from the Vice President of ASHRAE National Board of Directors, Mr. Darryl Boyce. Mr. John Cole of Albert Kahn Associates and current President of the Detroit ASHRAE Chapter will present a power point overview of the Ice Arena layout with attention to the mechanical ice generation equipment, pumps and usual requirements that need to be included in the design of this type of facility. A guided tour of the entire building will follow the presentation and we'll all end up at around 6:00 pm or so with some ASPE announcements, social hour, with hot dogs, pop and then the Whalers hockey game. All for \$15.00 Adult & \$10 Children/Students. Just show up and pay at the door, no person limit. Bring the family. No pets, though.

- Some ASPE people didn't miss the ASSE Dinner/Dance held on Saturday, January 17, 2004. This was another good party. I really must encourage more of our membership to become involved in that organiza-

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# American Society of Plumbing Engineers

## Eastern Michigan Chapter 2003-04 Technical Classes

*Held monthly at the  
(except where noted)*

PMC of Detroit  
14801 West 8 Mile Road  
Detroit, MI 48235

September 23, 2003  
Sanitary and Storm Piping

October 28, 2003  
Domestic Water Distribution, Boosters,  
Treatment and Sizing

November 18, 2003  
Commercial Laundry and Kitchen Requirements

December 16, 2003  
Domestic Hot Water Generation Design and Sizing

January 10, 2004  
First Saturday Technical Review Course (8 hours)

**Friday, February 20, 2004**  
**ASPE/ASHRAE Meeting at Compuware Arena for  
Snow Melting and Plumbing for the Ice Arena**

**February 24, 2004**  
**Professional Plumbing Practices, Estimating  
and Test Taking Skills**

March 23, 2004  
New Michigan Plumbing Code Review  
with Mr. Robert Konyndyk

April 3, 2004  
Second Saturday Technical Review Course (8 hours)

April 27, 2004 - Architectural and Structural  
Interferences, Coordination and  
Value Engineering Panel Discussion

May 25, 2004  
Open Microphone Night for Vendors and  
BBQ @ PMC Detroit

## President's Report

*continued from pg. 1*

tion. The "Prevention rather than cure" mentality and motto of this organization is very outstanding and commendable. ASSE is a diverse group of individuals from all aspects of the plumbing industry including engineers, code officials, contractors, manufacturers' representatives, and plumbing union instructors. Thanks to John Nussbaum, Cindy Zatto, Paul Bladdick, Tony D'Ascenzo and his band and my favorite 50/50 guy, Bob Ciesliga. *You showed me "the MONEY"*.

- The Annual "Night at the Races" is again scheduled for Northville Downs on Friday March 19, 2004. Table sponsors are available to anyone willing to put up the cash and their five guests for the night. As always, it is a good time for socializing with everyone.

- The week following the Night at the Races we are very privileged to have Mr. Robert Konyndyk, Chief of the Michigan Plumbing Codes Division, speak on Tuesday March 23, 2004 at the St. John's Armenian Church in Southfield, MI. See the additional notice, map and registration information package inside this newsletter. **Reservations are required.** We are limited to 175 people and I know we had that many with walk up registration and much confusion two years ago for Bob's commentary at the Excalibur Restaurant. CEU credits will be given for Inspectors and attendees who require them. I also encourage you to mail in (separately) the form for your new 2003 Michigan Plumbing Code Books (only \$44), so you have them to make marks, comments or clarifications to the text that Mr. Konyndyk may explain.

- Have you all had the chance to get into the Code Study & Development Group of Southeastern Michigan raffle? It costs only \$250 (totally tax deductible) for the possibility of winning \$20,000, \$10,000, \$5,000 or seven \$1,000 prizes for a good cause. The raffle remittance form is also in this newsletter. Give. You may receive more. **Drawing to be held the night of March 23, 2004 and you need not be present to win.**

- Another addition to our newsletter this month is an informational flyer about the Michigan Backflow Prevention Association 2004 Annual Educational Conference to be held Monday, March 22, 2004 in Lansing Michigan. If anyone is in need of some additional CEU Credits for their CPD re-certification, you can obtain them by attending this MBPA Conference. Refer to the registration information sheet for further details.

*continued on pg.7*

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 Joe Hernandez. Checks should be made payable to ASPE E. Mich. Chapter and send check with inserts or ad to Joe Hernandez. Circulation 400-Distributed to: Engineers, Contractors, Inspectors, and other industry professionals in Michigan. For contributing articles contact Joe Hernandez, Newsletter Editor at [newslettereditor@aspeemc.org](mailto:newslettereditor@aspeemc.org).

# VP TECH REPORT

**Wes Patton**  
**VP Technical**

As interim VP Tech, I would like to welcome everyone back from the holiday break and say that I am sorry for inconvenience that you may have suffered due to January 27 meeting cancellation. These sort of things are unforeseeable and the decision was made for our members safety to cancel our general meeting and reschedule it for February 24. Every attempt was made to contact all members of the chapter and our usual guests. However, we apologize for anyone who may have been missed. In order to improve our communication, I want to implement a member hotline. This hotline will allow a rapid response to our members in time of emergencies. Also this hotline will function as a direct link to you for immediate informational updates to our technical programs or points of interest. If you are not aware our Chapter e-mail address, they are, wpatton@ssoe.com , aspeemc@dundee.net or info@aspeemc.org . It is our intention that you use this electronic tool for updates to all our programs. As Interim VP Tech, I want to assure you that the quality of our technical program is intact and proceeding as planned.

The first of our two February sessions will start off at Compuware Arena on February 20, 2004 as a joint meeting with ASPE and ASHRAE. Mr. Darryl Boyce, Vice President of ASHRAE National Board of Directors will make the introductions followed by the current local ASHRAE president, John Cole, PE of Albert Kahn Associates. John will give a presentation on all the 'ins and outs' of the ice arena. The Social hour will begin about 4:00 pm followed with a 5:00 pm tour of the Mechanical systems including the Snow melting system. The Whalers are playing that evening and all attendees are invited to stay for the game. There is a small charge for this event payable at the door (\$15.00 per members & guests, \$10.00 per student member or child). Remember, this is not just limited to members. Family and friends are also invited to the Whalers game. The cost for the Whalers game will include foods and beverages.

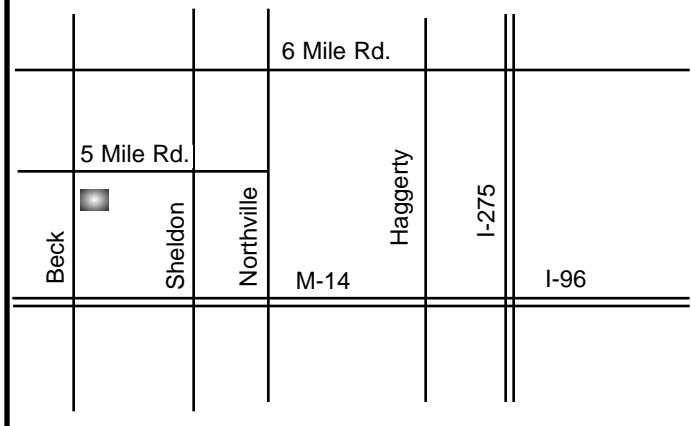
Okay gang sharpen those pencils, put a fresh set of batteries in those calculators because the February 24 (rescheduled from January 27) session will offer a review of test taking skills for professional Plumbers and engineers. You want experts? Well how about a LTU Professor? Dr. Daw Alwerfalli Ph.D., of the Mechanical Engineering Dept. at Lawrence Technical University in Southfield has agreed to provide the information on successful exam taking. His presentation will include test-taking tips, tackling engineering formulas and his infusion of plumbing engineering into his students' curriculum at LTU. In addition to the Professor, Barry Pines, CPD, no stranger to the Eastern Michigan

Chapter and this years recipient of the ASSE "John E. Matthew Engineer of the Year" with may years of experience as a plumber, will also provide insight to successful test taking. We have it all. For all those getting ready for the CIPE/CPD exam - this session will sure help.

The month of March feature several events. March 19 will be the chapter's perennial " Night at the Races" for an enjoyable evening. We will be returning to the Northville Downs. A separate mailing for members and guests is in the works. This is a great time for all you manufacturers' representatives to take your favorite engineer, or that someone special, to the races. Our tickets are the same as last year, \$27 per person. This includes dinner and a whole lot of fun. If you want to sponsor a table, they seat six(6). As always, one of the races will be named in the Eastern Michigan Chapter's honor.

Finally, on March 23 the topic of The New Michigan Plumbing Codes will be covered. Mr. Robert Konyndyk, Chief of the Plumbing Division for the State of Michigan, will be the speaker for the session. Mr. Konyndyk will lecture on the Plumbing Codes concerning commercial, industrial, institutional and residential construction. The location is at St. John's Armenian Church banquet hall in Southfield. The opportunity to preorder the new codes is now available and an order form has been place in this newsletter. There is also an advance registration form. It is highly recommended to pre-register to guarantee your spot. The program is over six hours long and dinner will be provided with your registration fee. Note, the new code books are at an extra cost. This was well received at the last MPC rollout and wound up being standing room only. So please register early.

**Compuware Sports Arena**  
**14900 N. Beck Rd**  
**Plymouth, MI 48170**



*Mark your calendars for  
March 23 for the  
New Michigan Plumbing  
Code Review with Mr.  
Robert Konyndyk*



*March*



Sun	Mon	Tue	Wed	Thu	Fri	Sat
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			

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## Professor Plumber sez...

**Bill Grayzar, CPD  
VP Education**

Welcome to February and the continuing wonderful Michigan winter weather. With the cold temperature Michigan experiences with its winters, everyone should be familiar with the need for heat in our homes, or at least the rising cost of our heating bills. The typical fuel sources we use to heat our buildings are fuel-gas, steam and electricity. However, for my article this month I would like to briefly discuss Fuel-Gas Systems.

Depending upon the location of a project, gas is available in the form of natural, manufactured or liquefied petroleum gas. Because gas is odorless, utility companies add the distinctive odor characteristic of gas as a safety precaution.

### **Heat Content:**

Natural gas generally has a content of 1,000 Btu/ft<sup>3</sup> and a low water content. Manufactured gas generally has a heat content of 540 Btu/ft<sup>3</sup> and some water content, which may cause erosion problems. Liquefied petroleum gas (LPG) comes in two types: propane, which has a heat content of 2,500 Btu/ft<sup>3</sup>, and butane, which has a heat content of 3,175 Btu/ft<sup>3</sup>. Butane is not as readily available as propane.

### **Pressure:**

Natural and manufactured gas at a pressure higher than 2 psi is termed "high-pressure gas". "Low-pressure gas" is below 2 psi, usually no greater than 0.5 psi (14 in. w.c.). Some utilities will permit the piping of gas at a pressure of 1 psi in buildings, but special permission must be obtained for any greater pressure. Where high-pressure gas is delivered by the utility, this pressure must be reduced to 0.5 psi for distribution within the building. Most gas-pressure regulators have a relief (vent) line piped to the atmosphere.

Butane and propane come in cylinders at a pressure of 80 psi to 120 psi.

### **Specific Gravity:**

Natural and manufactured gas is lighter than air. Its specific gravity usually 0.65 LPG is heavier than air and special precautions must be observed in the location of the cylinders. Cylinders should not be located in pits or in vaults unless they are mechanically ventilated. When they are located in a room, vents must be located at floor level. Exterior locations require proper separation of cylinders. Other than these precautions, LPG may be treated the same way as other gases.

### **Materials:**

Black steel pipe is the preferred material for gas piping. Brass and copper may be used when it is determined that the gas is non-corrosive. Underground services 6 in. and larger may be cast iron; however, it must be steel pipe entering the building. Fittings should be malleable iron, black or galvanized. Plug valves are the best for gas systems.

When piping is buried or is in contact with corrosive material, the pipe and fittings should be covered with a corrosion-resistant material (bitumastic paint) or should be mill wrapped. (Utilities allow certain types of plastic piping for underground service).

### **Rules and Regulations:**

Before commencing the design of a gas system, the engineer should contact the local utility company to obtain their rules and regulations in order to determine the following:

- Point at which the utility's work ends and the contractor's work begins.
- Btu value of the gas supplied.
- Pressure at which gas is supplied.
- Any special requirements.

### **Installation:**

The gas-service line to the building must have a minimum cover of 2 ft. A curb valve as well as a shut-off valve should be installed within 2 ft. of the point of entry into the building. Various schemes are used and recommended by various agencies for the method of entering the building to

## Professor Plumber sez...

*continued from previous page.*

minimize the danger of pipe failure and the accumulation of escaped gas. The utility company should be contacted for their recommendations or requirements. The entry into the building should be a minimum of 10 ft. from any stairway. The piping should be run as directly as possible from the point of entry to the meter and must be exposed for its entire length.

### Design:

The total pressure drop from the meter to the farthest outlet should be in the range of 0.2 to 0.5 in. of water column (wc) but should not exceed 10% of the available pressure in normal gas systems. All risers should be valved. Drips should be located at low points in the piping and at the base of all risers. Connections from the mains should be from the side or top where possible. If a connection must be made from the bottom, a drip should be provided at that point or the branch should be pinched down to the riser.

The entire system should be subjected to an air test for 10 minutes at a pressure that is twice the system working pressure without showing any loss of pressure.

### Sizing:

The sizing of gas piping follows all the engineering principles involved in the sizing of any liquid transporting system. The following factors are involved:

- Allowable pressure drop from the meter to the farthest outlet.
- Demand (load) in ft<sup>3</sup>/h.
- Equivalent length of run.
- Specific gravity of gas.
- Diversity factor (factor of usage).

The following "Spitzglass formula" can be used to determine the gas capacity for various pipe sizes. This formula has been utilized for calculating many gas capacity tables.

$$Q = 3550 (d^5 / (1 + 3.6/d + 0.03d))^{1/2} (h / SL)^{1/2}$$

Q = Quantity of flow (ft<sup>3</sup>/h)

d = Actual inside diameter of pipe (in.)

h = Total pressure drop over length L (in. wc)

L = Equivalent length of run (ft)

S = Specific gravity of gas

Most gas tables are derived using a specific value for S (specific gravity of gas) and h (Total pressure drop over length L). These values typically appear at the top of each gas chart. Remember also to look for conversion factors that may be associated with these gas charts.

This brief look at gas piping should cover what is required in regards to gas piping for the upcoming CIPE/CPD exam. Look for a separate flier this month for the CIPE/CPD Exam Review Course to be held on April 3rd, 2004. Please remember to register for the review course.

## Bill

### President's Report

*continued from pg. 2*

• **How many bullets in clip:** The next couple of months are going to be very busy for me. My duties with Viega have me traveling all over the United States and Canada for meetings and presentations to engineering firms, contractors and distributors. I hope that you do not feel as though I am shirking my responsibilities as President when I'm not at some of our meetings. I really would rather be nowhere else. I get tired. Hotels, Planes and Automobiles...Hollywood should do a sitcom about the modern day Willy Loman... Where is that gas pipe? A couple of my board of director cohorts and I will be compiling a synopsis of what it takes to be a salesperson, in these times of internet speed and instant satisfaction. Look for it soon. A Best Seller I'm sure.

• Should anyone need or want to contact Ms. Jill Dirksen in her new national position with ASPE, her e-mail address is: [aspetechdir@aspe.org](mailto:aspetechdir@aspe.org). Send her your personal congratulatory note.

• I want to thank those of you who have stepped forward on your own, or when asked, to become a part of our Board of Directors. The board meetings are always welcome for members to come and listen, even comment, though you cannot vote. You can still see the process that it takes to keep our chapter, not unlike all other chapters across America, moving forward with the plumbing engineering industry and a "Progression in Technology".

• **Out with a bang. See you on February 20th.**

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**Febco** - backflow prevention assemblies, **Hot Box** - insulated valve & meter enclosures, **Mr. Steam** - residential & commercial steamroom generators, saunas, **NDS** - exterior drainage & landscape products, valve & meter boxes, channel drain, flexible couplings & saddles, equipment pads, tree grates, grass pavers, root barriers, drip & micro irrigation, **Plumberex-ADA Handy Shield™** trap & supply safety covers, **Sioux Chief** - commercial drainage products, roof drains, water hammer arresters, commercial hangers & brackets, trap primers, preformed copper, plumbing specialties, **Spears Mfg. Co.** - PVC/CPVC fittings, DWV fittings, ball, lab, check, diaphragm, butterfly valves, CTS fittings & valves, irrigation specialties, fabricated fittings, CPVC fire sprinkler fittings, actuation, dual-containment, CPVC lab waste systems, LXT ultra-pure water systems, PVC compression fittings, PVC saddles, **Toilet Partitions**

**Argo Industries**-baseboard heat, zoning controls, pump relays, **Burnham**-boilers, baseboard heat, indirect water heaters, radiators, **COZY**-wall furnaces, **Delavan**-oil metering devices/nozzles, **Effikal**-barometric & vent dampers, **Grundfos Pumps**-multi-stage centrifugal, sump, circulators, booster pumps, end suction, variable speed pumps, **Honeywell/Sparco/Braukmann**-dual certified anti-scald mixing valves, expansion tanks, air eliminators, backflow preventers, high-low temperature controls, check valves, micro bubble eliminators, **J & J Register**-grilles & registers, **Rinnai**-continuous water heaters, **Tekmar**-boiler & snow-melting controls, **Tjernlund**-power venters, draft inducers, fresh air & combustion air products, variable speed auto-draft solutions, **Triangle Tube**-stainless steel indirect fired water heaters, combination indirect/direct water heaters for space heating & domestic water, brazed plate heat exchangers, **Unico**-mini-duct high velocity air conditioning systems, spot cooling, **Wirsbo**-aquapex professional plumbing systems, HePex radiant floor & snow-melt

**ITT-AC**-centrifugal, split case, end suction, self-primers, **American Marsh**-horizontal & vertical centrifugal, multi stage, **Floway**-vertical turbine pumps, API 610, **Grundfos**-multi-stage stainless steel pumps, in-line, end suction, sump pumps, **ITT Flygt**-submersible pumps & mixers, **Union**-in-line & high pressure pumps, **Vican**-rotary gear pumps, **Cascade**-mixed flow & propeller pumps, **Griswold**-ANSI, centrifugal, submersible turbines, **Carter**-plunger pumps, **Patterson**-centrifugal, horizontal & vertical turbines, **Voelsang**-positive displacement, **Metropolitan**-pump control system, variable speed pump pkgs & heat transfer pkgs, **Pump/Con**-control panels/level control equipment, **Sensaphone**-alarm dialers, **Multirode**-level monitoring & control systems, **Dezurik**-plug, butterfly, knife gate, V-port & control valves, pneumatic double acting, spring return & diaphragm actuators, **Copes Vulcan**-severe duty globe control valves, desuperheaters, turbine bypass systems, special application control valves, **In-line**-stainless steel ball valves, **Cla-val**-automatic control valves, backflow preventers, float valves, **Crispin Valve**-rubber flapper check & air release valves, **Hydro Gate**-slide & sluice gates, **Crane**-mission-double & single door check valves, **RCS**-electric, on-off modulating & fail-safe quarter-turn & multi-turn, **Kinetrol**-quarter-turn "vane" type pneumatic actuators, **Thermon**-heat tracing specialist, self-regulating & power limiting, constant watt, electric & steam tank heating, heat transfer cements, controls & monitoring, **Cellex**-heated instrument enclosures, pre-insulated tubing, instrument supports, **Adamson**-shell & tube, heat exchangers, packaged water heaters, **Shaw**-insulated & non-insulated pipe support systems for all piping from -425F to +1800F, **Adamson**-storage, hydropneumatic, expansion, boiler blowoff tanks, **Topp**-fiberglass basins, **Hilliard Corp.** "Hilco"-oil filters, oil reclaimers, **Proco**-flexible connectors, **Thunderline**-link seals & wall sleeves, **Cook Legacy**-coatings to prevent Zebra Mussel build up, **Magnadrive**-magnetic couplings/VFD's, **Baysaver**-stormwater separation

**Lochinvar** - High efficiency water heaters, boilers, pool heaters, booster heaters & storage tanks.



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**ABS Pumps**-sump & sewage pumps & systems, **American Water Heater** - commercial tank type water heaters, **Conbraco**-plumbing & heating products, backflow prevention devices, **DWV Foundry**-cast iron soil pipe, fittings, full port valves, **Ecodyne**-commercial and industrial water treatment, R.O. systems, D.I. water PVC drains & cleanouts, **Everhot**-stone lined indirect water heaters, **Flo-Pak/Patterson Pump**-pressure booster systems, package HVAC pumping systems, fire pump systems, **Genova/J.M./Jet Stream**-Sch. 40 PVC, solid & cellular core, Sch. 30, SDR 26 & 21, gasketed & belled end, CPVC & sewer pipe, **Graham**-plate & frame heat exchangers, steam instantaneous water heaters, **Griffin Products**-stainless steel sinks & fixtures, **H.B. Smith** -commercial cast iron steam & hot water boilers, **Hydrotherm**-commercial & residential cast iron modular & pulse boilers, **John Wood Co.**-ASME & commercial pressure vessels, storage & expansion tanks, **Lasco**-PVC fittings, sch. 40 & sch. 80, **Maxitrol**-gas pressure regulators, **Mepco**-steam specialties, condensate & vacuum pumps, traps, **Mifab**-roof & floor drains, cleanouts, carriers, interceptors, access doors, trap primers, hydrants, **Polycast**-trench drain systems in precast polymer concrete or fiberglass, **RBI**-commercial & residential copper-fin boilers & water heaters, storage tanks, pool heaters, **Rehau**-radiant floor hydronic heating & snow melt systems, plumb-pex, **Space Pak**-air conditioning systems, **Thermex**-point of use electric water heaters, **Thrush**-circulator pumps, inline pumps, end suction pumps, heat exchangers, hydronic accessories, **Weinman Pump** -base mounted, horizontal split case, turbine, condensate systems, **Wheatley**-pump accessories, heat exchangers, expansion tanks, air separators, CBV, TDV, strainers&valves, flexible connectors

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**A.O. Smith** - water heaters, boilers, commercial & residential, **American Plumber**-water filtration products, **Bemis/Church** - plastic, wood and medic-aid, residential & commercial toilet seats, **Boots Plumbingware**-steel lavs & tubs, **Howell Metal** -copper tubing, **Jones Stephens Corp**-plumbing specialties, **Little Giant Pump Co.** -sump, sewage & condensate, **Mansfield Plumbing**-plumbing products, china/steel/brass, **Plastic Trends** - PVC SDR 35 gasketed 4"-24", PVC SDR26 heavy wall gasketed 4"-18", PVC SDR 35 solvent weld 4"-24", styrene solvent weld 3"-6", PVC/DWV solvent weld 8"-24", **Plumco** -specialty products, **Royal Quickstop**-fire protection systems, **Swirl-way**-acrylic whirl-pool tubs, Vandem-no hub cast iron soil pipe and fittings

**Aero Mfg**-stainless steel sinks, **Bradley Corp.** - washfountains, emergency, patient care & security fixtures, **Central Brass**-faucets & plumbing brass, **Chronomite** - point of use water heaters, **Dwyer Kitchens** - compact kitchens, **Halsey Taylor** - electric water coolers & drinking fountains, **Leonard** - shower & water mixing valves, thermostatic & pressure balanced, **McGuire**-brass fittings, **Santana** - toilet & shower compartments , **Truebro** - trap & supply covers

**Armstrong International**-"Flo-Rite Temp" & "Flo-Direct" instantaneous water heaters, thermostatic mixing valves, air vents, drainers, radiator valves, pressure reducing valves, heating & cooling coils, hose stations, steam traps, steam specialties, condensate pumps, steam system optimization services, **Humidifiers**-water spray-fogging types, steam-electronic & gas fired, steam to steam, **Check-All Valve**-specialty spring-loaded check valves, **Circle S Products**-steam & air separators, flash tanks, **Crane Environmental**-deaerators, high purity water systems, membrane-based filtration, reverse osmosis (RO), softeners & filters, **Hydro-Thermal**-direct injection steam heaters, **Kunkle**-safety & relief valves, **Lattner Mfg.**-gas/electric steam & hot water boilers, **Marlo Coil**-heating & cooling coils, **Sentry Equipment Co.**-plate & frame, brazed heat exchangers, **Valleygroup**-ceramic insulation & corrosion protection

**Nibco** - copper & plastic fittings, plumbing valves, pressure rated valves, industrial plastic fittings & valves

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**Alsons**-shower heads, hands showers & accessories, **Campbell Mfg.**-water system & filtration products, **CTS**-copper flange adapters, **Flint & Walling**-well pumps, jet pumps, water conditioning, **Laco Industries**-fluxes, sealants, penetrants, caulk, putty, **PHD Mfg.**-pipe hangers, strut & accessories, **Raychem**-heat tracing products, pipe freeze protection, **Seminole**-pipe nipples, couplings, steel fittings, **Stadler-Viega** - in-floor radiant heat, potable water pex, **Topp Industries**-fiberglass and poly basins, **Viessmann Mfg.**-boilers, controls & energy management, **Ward Mfg.**-malleable & cast iron fittings, wardflex, **Waterless**-waterless urinals, **Zoeller Pump Co.**-sump, sewage & wastewater pumps & accessories

**Anaco**-no hub couplings, transition couplings, SV gaskets, **Aquarius** - acrylic & gel coat shower/tub-shower surrounds, **Chicago Faucet**-hospital, commercial, laboratory, industrial faucets & fittings, **Eemax**-electric tankless & mini-storage water heaters, **Geberit**-pressure assist flushing systems, sensor faucets & flush valves, **Haws**-emergency showers, eye washes, drinking fountains & water coolers, **Husky**-heavy duty & mid-range no hub couplings, **Intersan Mfg.**-stainless steel and polyresin washfountains & lavatory stations, **J.D. Gould**-electric solenoid valves, bronze & stainless steel, **Orion Fittings**-corrosion resistant piping systems, high purity water & dilution tanks, **Powers**-thermostatic controllers, pressure-balance & thermostatic shower systems, self-actuated temperature regulators, **Stern-Williams Co.**-terrazzo mop sinks & shower floors, drinking fountains, **Tyler Pipe**-Tyler soil pipe & accessories, Rufwall systems

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**AC Fire Pump Systems** - horizontal split case, end suction & in-line fire pumps, ul & fm packaged systems including skids & pre-fabricated houses, **Floway Pumps**- vertical turbine fire pumps, **Cla-Val** - fire control valves, ul & fm, **Guardian** - Guardian fire equipment, hose equipment and brass, **Xerxes** - underground water storage tanks, **Modern** - pressure & steel water storage tanks.

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**Watts Regulator Co.** -regulators, control valves, relief valves, backflow preventers, ball valves, gate valves, butterfly valves, hydronic valves, tempering valves and other plumbing specialties

# **ASPE NEWS**

*American Society of Plumbing Engineers-Eastern Michigan Chapter*

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