

April 2003



**Eastern Michigan Chapter**  
[www.aspeemc.org](http://www.aspeemc.org)

### Plumbing Design Class

**Date:** Tuesday, April 22, 2003

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

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

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

**Topic:** Mechanical Room Design

**Speaker:** Doug Cryer, CSI CIPE/CPD

**Sponsors:** H. V. Burton Co.  
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***Please confirm your attendance through the web site at [aspeemc.org](http://aspeemc.org) e-mail to [propress1@comcast.net](mailto:propress1@comcast.net) or phone Doug Cryer at 313-406-2693***

## **PRESIDENT'S REPORT**

**Joe Hernandez, CIPE/CPD  
 President**



I have two favorite times of the year, Spring and Fall. I absolutely love watching the cycle where the vibrant colors of fall eventually turn to the new growth of the budding trees and emerging flowers. The Eastern Michigan chapter is in somewhat of the same cycle right now - our year is winding down, but preparing

for new growth as we select a new slate of officers for the upcoming year. I have served this chapter and board in one way or another for the last 12 years. It has been the most rewarding time of my career as an engineer. The friendships that have been made are too numerous to mention, but well worth the personal sacrifice of time.

Last month it occurred to me the true reason was behind the social programs that we sponsor: fellowship. My wife, Vicki, and I were the guests of the Burke Agency at the Night of the Races in Northville last month. We sat with Brett Young and Tom Zimmerman of the Burke Agency. Personal conversation dominated the evening rather than the usual "office talk". Not only did we have a great time giving our money to the racecourse, but I now have a deeper understanding of the gentlemen who call on me at my office during work time. This is what the Chapter fosters - relationships between the design engineer and manufacturers' representatives. There were over 80 race goers and a dozen or so firms represented. I'm sure they all had just as good a time as we did. Did everyone get out to Sales Service Plus for the pre-race gathering? Kirby Meagher opened his office and warehouse for a quick tour, then on to the hors d'oeuvres. Absolutely a great time. And again, a fun and enjoyable way to mix business and pleasure and to build support in the engineering community.

The conclusion to the month of March madness, (no I'm not talking about NCAA basketball) was the MASCO tour. Wow, what a night! Upon arrival, we were treated to a tour of the Manoogian art collection. I have been to some of the finest art institutes in the country, but just to see several original Remingtons in private setting was worth the cost of dinner, not to mention the rest of the Manoogian collection. Stunning, simply stunning. After dinner, our guest speaker was Peter Warshaw, a past vice president of Delta

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# American Society of Plumbing Engineers

## Eastern Michigan Chapter 2002-03 Technical Classes

*Held monthly at the  
(except where noted)*

PMC Center  
14801 West 8 Mile Road  
Detroit, MI 48235  
\*\*\*\*\*

September 24, 2002  
Our Water Supply - Post 9-11

October 22, 2002  
Commercial Kitchen Design and Layout

November 5, 2002  
Joint Meeting with ASHRAE and ASPE  
at the new "Ford Field"

December 10, 2002  
Snow Melting and Radiant Floor Design

February 25, 2003  
Forming a Code Standards Committee  
between ANSI/ASTM/ASPE

March 25, 2003  
Masco Industries Tour

***April 22, 2003***  
***Mechanical Room Design***

May 27, 2003  
Irrigation Systems Calculations and Design

*For instructor name and course description,  
visit our web site at [www.aspeemc.org](http://www.aspeemc.org)*

## ***Thank you to our sponsors...***

A special thank you to the following manufacturers' representatives for sponsoring this month's meeting. Let them know you saw their names here.

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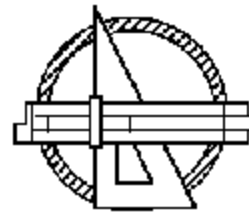
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# Eastern Michigan



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chapter - get involved!***

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

**Douglas W. Cryer, CSI CIPE/CPD  
VP Technical**

Are mechanical Rooms ever too large? I have not experienced that phenomenon. Although, when I was at our ASPE/ASHRAE Meeting at the Lions Stadium, I was overwhelmed by the open, well thought out design and installation. I commend the many individuals who used forethought to allow for service and future expansion. This, for a room that architects and owners do not consider profitable like money generating spaces, such as suites or concessions areas.

I realize that I am preaching to the choir here, instead of to the architectural community that hinders our need for space. Imagine this scenario that one of my former engineering firms inherited. One small, trapezoidal shaped space that was called a Mechanical Room for an entire school facility, including the office areas and classrooms. What a nightmare. You try to put a domestic water heater, heating water boiler(s) stacked, pumps for domestic re-circulation, master mixing valves, expansion tanks, water meter, backflow assemblies, heating water piping specialties and pumps, concrete housekeeping pads, two doors on opposite walls, windows and combustion air louvers, flue stacks, intake air hood for high combustion air intake requirements. Did I say no available wall space for disconnect switches, timers, controls for building automation. Luckily, we used gas fired rooftop air handling equipment to provide conditioned air to each zone with hot water re-heat for the room coils. In this case, the owner and architect had already met several times prior to our involvement and we were left with this odd shape to use. To top it off, the people who set the housekeeping pads did not review the plans close enough to see the specific dimensions that were included on a separate plan. I used the space to the best of my ability and none of my forethought was considered. Talk about RFI's from the contractors. This project had its own notebook of questions and rework. This project should have gone design build and the owner ultimately paid more for the entire extras than if we were allocated a larger, more usable space in the first place.

If you take away any knowledge from this Technical Session, please understand that you have to really think about the typical equipment that needs to be included in the layout and design of the piping systems to avoid steel, other piping, electrical panels and take a stand for your company and our territory and domain. We must continue to educate the architects and building owner's that our, or the facilities plumbing and mechanical, needs must be considered in the schematic design phase or everyone loses. **OUR NEEDS, WANTS AND DESIRES ARE IMPORTANT!**

Recently, I was home watching TV in the afternoon and came up with little comical scenario for you. Read on:

I have needs, Dr. Phil. *Yes. Let's talk about your needs, Doug.* Well, first I want wall space. *OK.* Then, I'd like double doors. *Great, let it out.* Also, do I have to share my space with the electrical stuff? *Water and electricity do not coexist in my world.* *Now. Now. Doug, that is some request.* *Do you have problems sharing?* No, I don't. But, the NEC Code strictly regulates my capabilities. *Doug, you need to change professions or you'll explode or go "Postal".* Dr. Phil, I've been known to. *Thank you Doug for your insight. Let's take a break and be right back with our next guest, Mr. Geoff Graber of Geoff Graber, LLC to talk about irrigation idiosyncrasies and the plumbing engineer.*

*Welcome back. I'd now like to introduce my next guest Geoff Graber.* Good evening and thank you for having me Dr. Phil. *Tell me Geoff, what are your issues?* Let me think... Usually, I am an afterthought in the whole building process. I do like when Engineers ask me questions about my job and requirements. Especially, when they inform me of the static and residual water pressures at the project location. You know, that is one of the most common omissions on Construction Documents. *Please explain more Geoff.* Did you ever wonder how football fields are watered? You've seen the length and width of the field and sidelines and you cannot put any sprinkler heads in the field of play. *That makes good sense. Players would be more prone to injuries if they were to step and slip on a sprinkler head will trying to break away for that long touchdown run.* You see my point exactly, Dr. Phil. *How do you compensate for that type of application Geoff?* Water pressure, zoning of head locations, types of sprinkler heads and spacing are the critical items to review. *Geoff, I like to golf and notice that sprinkler heads are often located in the middle of a fairway, with an indication of distance to the center of the green. These head placements do not usually affect my play though. I usually end up in the rough grass, below an evergreen or in tree roots. I haven't seen many heads located in those areas and it probably would not make much economical sense to trench through tree roots and disrupt the natural beauty of the tree lined fairways. Is this a correct statement or thought, Geoff?* Dr. Phil, you think too much. Just concentrate on hitting the ball long and straight towards the pin and green. But, yes that could be a consideration. It's not rocket science, Dr. Phil. However, understanding some of the placement principals for individual applications and doing my calculations, using the proper equipment is what I do. All a person needs is an understanding of the application, water pressure, velocity, pipe sizing, specific materials and sprinkler heads. Add a touch of forethought with the landscape architects and plumbing engineering community and my job is simple. *Geoff, that sounds like "Utopia" for your daily tasks.* Not always. Doug alluded earlier in this program about space allocation. I could not agree more. As I previously mentioned, I'm the afterthought. Nobody cares about the irrigation booster pumps and wall space for controllers, disconnect switches and timing devices that go with the irrigation pack-



May



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11	12	13	14	15	16	17
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25	26	27	28	29	30	31

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calendars for  
May 27 when  
Irrigation Systems  
Calculations and  
Design  
is presented*

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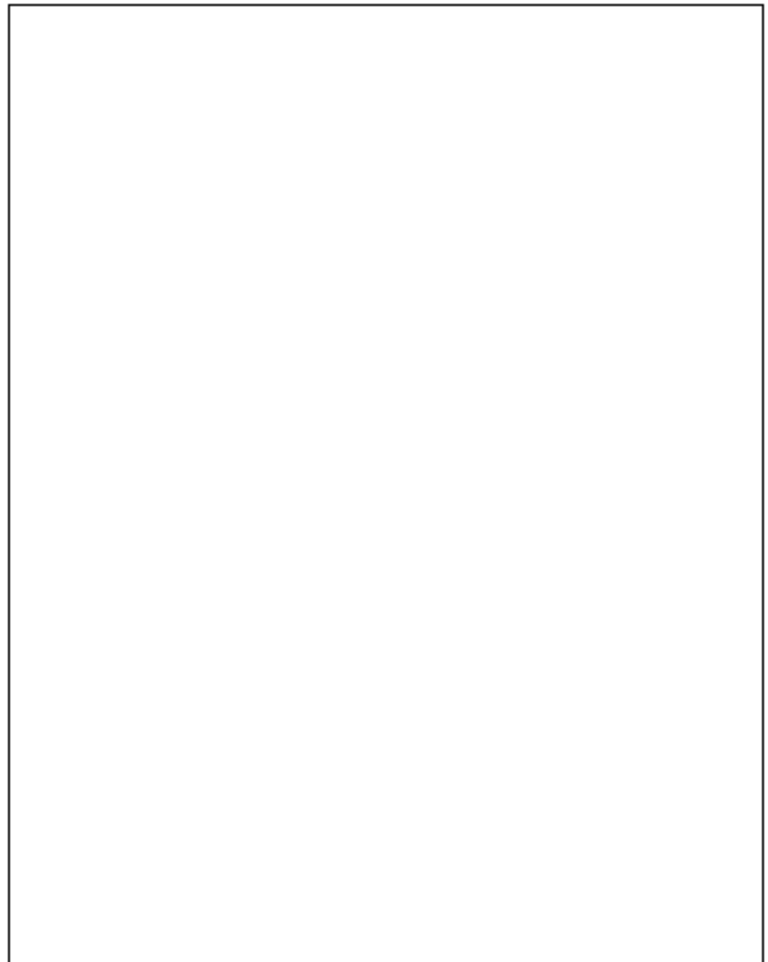
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## President's Report

*continued from pg. 1*

Faucet and the current Industry Editor for the new *ASPE Plumbing Systems and Design* magazine. He gave a great oration on plumbing innovations.

Over 60 guests attended, which included our Western Michigan Chapter. Paula Johnson, chapter president and a mechanical designer with Progressive Architects and Engineers in Grand Rapids, made it possible to bring east and west together. Again, the friendships are what it is about. Our members and their members bring together one state, the great state of Michigan.

The "behind the scenes" people were Brett Young, Burke Agency and Wes Patton, Sr. Engineer, of SSOE Inc. working as record keepers and facilitators. A hardy, "hats off" to them.

At the next meeting, we will have a special presentation on Mechanical Room Design. Mr. Doug Cryer, CSI, CPD, VP Technical, will give the presentation on April 22 at the PMC

in Detroit. Doug has had a recent medical condition, but he's now rested and ready to go. As always, please, send in your reservations through the web site at [aspeemc.org](http://aspeemc.org), e-mail Doug at [propress1@comcast.net](mailto:propress1@comcast.net), or phone Doug at 313-406-2693.

April showers bring May flowers, right? You bet, and May will also bring elections for the up coming year. If you would like to seek a board position, the time is now. Just let one of the board members know of your intentions and you will be placed in nomination for that particular post. You're probably asking what do I get out of it? The answer is what I have been saying throughout this report, numerous friendships and a career enhancing experience that will last a lifetime. You can make a difference. Not only do you gain, but you also have the opportunity to give back and share with those just starting in the industry.

If you know of someone having difficulty receiving our newsletter, send these corrections to George Johnston at 313-864-2800. If you know someone who would like to receive our newsletter, let George know this too!

## *An evening at Masco*



Pete Warshaw and Joe Hernandez



Joe and Paula Johnson



## Night at the Races

Last month's Night at the Races, to put it simply, was a blast. The evening started at Sales Service Plus with a pre-race party. Kirby really put out a spread. Later at Northville Downs, over 80 people enjoyed a buffet dinner. Then came the serious stuff - \$2 bets.

The fourth race was dedicated to ASPE. Bea's Pirate was the winner, with Water Source and Oily Rag coming in close behind.

Special thanks to Scott Knight for a great job at putting everything together and to all those who sponsored table tops!

# Legislative Report

**Jill J. Dirksen**  
**VP Legislative**

## *STATE PLUMBING BOARD MEETING UPDATED*

The next Board Meeting will be April 23, 2003 at 10:00 am at 2501 Woodlake Circle, 2nd Floor, Okemos, MI.102

## *NATIONAL UPDATE and HELPFUL WEBSITES*

Keep in mind, the next big date in the current code development schedule is September 5-14, 2003. The Code Development proposals will be available. (Opryland Hotel, Nashville, TN)

The schedule in its entirety is found on the following website: [www.intlcode.org](http://www.intlcode.org). In addition, any questions regarding code change proposals should be directed to Eric Stafford P.E. at (877) 442-6337 or at his e-mail address: [estaffor@sbcci.org](mailto:estaffor@sbcci.org). He is the Manager of Codes & Standards for ICC. There is also a code change form online that may be utilized for proposed code changes.

ICC is going to be presenting an audio virtual seminar on June 15th. The title of the seminar is "Legal Issues Questions Raised by the Chicago and Rhode Island Nightclub Tragedies". It will be delivered over speaker-phone nationwide. ICC developed this seminar to address concerns that have been raised by these recent tragedies. It will last 90 minutes and there will be an opportunity for an interactive question and answer session. If you are interested in the seminar, it may be attended in an office or conference room. Single site registration is \$175. If you plan to attend this seminar, you will qualify to receive CEUs. Please visit [www.icc-safe.org/training/avs](http://www.icc-safe.org/training/avs) or call ICC at 1-800-214-4321, ext. 329 to register and find out more information.

The 2003 I-Codes are now available online. Please visit [www.ecodes.biz](http://www.ecodes.biz) to order your copy of any of the I-Codes. There is also a free download available right now of 2003 International Mechanical Code. This is a limited time offering. If you go to <http://www.icbo.org> you will find the 'Limited Time Offering' heading. From there, just follow the directions. This will help in your review of the codes in preparation of 2003/2004 code changes.

# A Member's Response...

In response to your article In My Opinion in the March 2003 issue of ASPE News, I would like to let you know that as a Contractor, I was at the Fire Protection Class on the 15th of February. I work for a mechanical contractor that includes fire protection as part of the services we offer (Plumbing, Hvac, Controls, Backflow testing are the other things). I found the class very informative. I was thrust into fire protection about 5 years ago with the statement " ... I don't care what it takes, learn everything you can about fire protection."

Mr. Yonkers and Mr. Underwood had a very good presentation. I felt I walked away with more information that day than anything I could have learned on my own. I am surprised that more people were not at the class. It seem that the room was rather empty. I think during one of the breaks I counted 17 not including sponsors.

Again, a very good class. I would take this class every time it was offered. These types of classes are very useful. It is not a bother to come out on a Saturday to learn. Nobody is ever too old to learn.

Thank you,  
Brad Mathisen  
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email: [bemathisen@mathisenco.com](mailto:bemathisen@mathisenco.com)

## **VP Technical Report**

*continued from pg. 3*

age. I need my space too! *Geoff, it appears that you and Doug have similar gripes and yet you and the others that do the designing should be acting like a team. One goal. Who would you blame?* Well, Dr. Phil, I'll conclude with this statement. Many factors affect each particular project and as you stated, "the Team Approach" would be ideal. But we need to train the building owners and architects that proper space allocation during the schematic phase of the design process would be pure Utopia. *Thank you Geoff for your additional insight. Join me next month for "Green Buildings". What does that mean? How do we design them?*

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**ITT A-C**-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, **Metropolitan**-pump control system, variable speed pump pkgs & heat transfer pkgs, **Pump/Con**-level control equipment, **Phonetics**-alarm dialers, **Multirode**-level monitoring & control systems, **Desurik**-plug, butterfly, knife gate, V-port & control valves, pneumatic double acting, spring return & diaphragm actuators, **In-line**-stainless steel ball valves, **Claval**-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, **Adamson**-storage, hydro-pneumatic, expansion, boiler blowoff tanks, **Topp**-fiberglass basins, **Hilliard Corp.** "Hilco"-oil filters, oil reclaimers, **Proco**-flexible connectors, **Shaw Piping Engineering & Hanger Group**-design, engineering & fabrication of insulated & non-insulated pipe support systems for all piping from -425F to +1800F, **Thunderline**-link seals & wall sleeves, **Cook Legacy**-coatings to prevent Zebra Mussel build up, **Magnadrive**-magnetic couplings/VFD's, **Baysaver**-stormwater separation

**Powers Process Controls** - pressure equalizing & thermostatic blending valves, fotopanel, hydropanel, electronic plumbing, self-actuated temperature regulators, pneumatic temperature controllers, **Haws Drinking Faucet Company** - emergency showers & eye wash fountains, drinking fountains & water coolers, **Coyne-Delany** - flush valves, sensor plumbing, **J.D. Gould** - electric solenoid valves, bronze & stainless steel

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

**A.O. Smith** - water heaters, boilers -commercial & residential, **Bemis/Church** - plastic, wood and medicated toilet seats, **Boottz 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**, **Swirl-Way** -acrylic whirlpool tubs

**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

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**Armstrong International**-“Flo-Rite Temp” & “Flo-Direct” instantaneous water heaters, “RADA” 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, **Kumde**-safety & relief valves, **Lattner Mfg.**-gas/electric steam & hot water boilers, **Marlo Coil**-heating & cooling coils, **Sentry Equipment Co.**-plate & frame, brazed heat exchangers

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

**Alrich**-steel tube, oil & gas-fired boilers. Low pressure steam, hydronic and volume hot water heating systems, **Autotrol**-water purification by deionization. Capacities up to 20,000 gallons per day, **Hobby Valve Co.**-low/standard range thermostatic mixing valves 1/2" to 4", **Lawler Valve Co.**-low/standard range thermostatic hot water mixing valves, emergency shower valves, temperature and pressure balanced mixing valves 1/2" to 2", **Raypak**-copper-fin hydronic and domestic hot water supply boilers, booster heaters & storage tanks. Sizes from 30 MBTU to 4,000 MBTU, **Rund Manufacturing**-commercial & residential gas-fired and electric hot water heaters & booster heaters, **Trawl-Pak**-cutom in-slab & underfloor heating designs & materials for radiant floor heating, snow melting and de-icing systems, **Valley**-commercial water softeners with metered & non-metered regeneration control, pre-wired and pre-plumbed multi-tank systems

**ABS Pumps**-sump & sewage pumps & systems, **Alamo(Ecodyne)**-commercial & industrial water treatment, R.O. systems, D.I. water, **American Turbine**-turbine pumps, **American Water Heater**-commercial tank type water heaters, **Conbraco**-plumbing & heating products, backflow prevention devices, **Everhot**-stone lined indirect water heaters, **Graham**-plate & frame heat exchangers, steam instantaneous water heaters, **Genova/J.M./Jet Stream**-sch 40 PVC, solid & cellular core, sch 30, SDR 26 & 21, gasketed & belled end, CPVC & sewer pipe, **Griffin Products**-stainless steel sinks & fixtures, **Hydrotherm**-commercial & residential cast iron modular & pulse boilers, **John Wood Co.**-ASME & commercial pressure vessels, storage & expansion tanks, **Josam**-roof & floor drains, carriers, interceptors, commercial drainage products, **Josam/Bucher**-stainless steel pipe, floor & bench drains, **Josam/MEA**-bench drain systems in precast polymer concrete or fiberglass, **Josam/Stem**-automatic sensors or flush valves, faucets & showers, **Lasco**-PVC fittings, sch 40 & sch 80, **Maxitrol**-gas pressure regulators, **Mepco**-steam specialties, condensate & vacuum pumps, taps, **RBI**-commercial & residential copper-fin boilers & water heaters, storage tanks, pool heaters, **Rehau**-radiant floor hydronic heating & snow melt systems, plumb-pex, **Richmond Foundry**-cast iron soil pipe, fittings, full port valves, PVC drains & cleanouts, **Space Pak**-air conditioning systems, **Stiebel Eltron**-tankless electric water heaters, **SyncoFlo**-pressure booster systems, packaged HVAC pumping systems, fire pump systems, **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

**A.C.Tech**-variable speed drives, **Advance Thermal**-removable insulation & acoustical covers, **ITT Bell & Gossett**-hydronic specialties, centrifugal pumps, heat exchangers, heat transfer plugs, pressure booster, domestic water heating, variable speed systems, vertical turbine, submersible pumps, **Cemline**-ASME tanks, hot water storage, packaged water heaters, stone steel lined tanks, replacement tube bundles, unfired steam generators, **ITT Domestic Pump**-condensate return, vacuum & pressure powered pumps, boiler feed systems, **Dow Heat Transfer Fluids** -Dow Therm SR-1, Dow Frost, **Dri-Steam**-steam injection, gas to steam, steam to steam, electric steam, evaporative humidifiers, ultrasonic fog humidifiers, **Crisvold Controls**-coil hook-up kits, constant flow limiting valves, filter, solids separators & filter systems, **Highland Tank**-oil & water separators, **ITT Hoffman Specialties** -steam traps & specialties, condensate return pumps, pressure regulating valves, **ITT McDonnell & Miller**-boiler safety controls, level controls, flow switches, **Metraflex**-flexible pump connectors, expansion joints & guides, non-slam check valves, ball & butterfly valves, **MP Pumps**-self priming pumps, engine driven pumps, **Peterson Equipment** -“Petes” pressure/temperature test plugs, **Preso**-annular/venturi flow meters, **Vertiflo**-pedestal mount sump pumps, **Vibration Eliminator**-vibration control bases, spring isolators, **Watts Radiant**-radiant floor heating systems, snow melting systems, **Welsler Instruments**-pressure gauges, thermometers, recorders **Wessels**-ASME storage tanks, bladder tanks, glass lined storage tanks, glycol fill systems

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**Alsons**-shower heads, hands showers & accessories, **American Mfg.**-pump controls & alarms, **CTS**-copper flange adapters, **Iron Out, Inc.**-Iron Out and Pro Line chemicals, **Laco Industries**-fluxes, sealants, cements, penetrants, caulk, putty, **PHD Mfg.**-pipe hangers, strut & accessories, **Raychem**-heat tracing products, **Stadler Corp.**-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, **Zoeller**-sump, sewage & wastewater pumps & accessories, **Waterless Urinals, Seminole Nipples, Whirlpool/Cielb Tubs.**

**Anaco**-no hub couplings, transition couplings, SV gaskets, **Aquarius** - acrylic & gel coat shower/tub-shower surrounds, **Chicago Faucet**-residential, hospital, industrial, commercial, lab & decorative faucets, **Eemax**-electric tankless water heaters, **Geberit**-commercial product division, sensor flush valves & faucets, pressure assisted toilet systems, metering faucets, **Guardian Equipment**-emergency eye wash & shower equipment, **Husky** - heavy duty & mid-range no hub couplings, **Intersan Mfg.**-stainless steel and polyresin washfountains, **Orion Fittings**-corrosion resistant piping systems, high purity water & dilution tanks, **Stern-Williams Co.**-terrazzo mop sinks & shower floors, drinking fountains, **Tyler Pipe**-Tyler soil pipe & accessories, Rufwall systems

**Aqua Bath**-acrylic ADA tub & shower unit, **Cooper Blinn**-pipe hangers & strut systems, **Dupage Products**-threaded rod & hose clamps, **Green Mfg. Inc.**-loading racks & stairs, **Hayward Industrial Products**-plastic pvc, cpvc valves, basket strainers, filters, pneumatic & electric actuators & solenoid valves, **Webster Pumps** -inmersible & centrifugal pumps, **Insul-Tele**-insulated piping systems, **Homestead**-plug valves, **Hydrotek International Inc.**-sensor operated faucets & flush valves, **Mission Rubber Co.**-"heavyweight" no hub couplings, **Noble Co.**-anti-freeze non-toxic, CHE shower pan lining, **Richmade Co.**-pvc shower pan lining, **Rockford Sanitary Systems**-grease interceptors, oil separators, **OPW Engineered Systems**-loading arms, sight flos, iso rings & swivel joints

**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.  
Field service work for all manufacturers of pumps, controls and accessories.  
Annual fire pump tests and preventative maintenance.

**Apollo** - all valves, butterfly valves, pneumatic & electric actuators mixing valves, pipeline strainers, **Colonial Engineering**-PCV/CPVC/PVDF/PP ball valves, PVC butterfly valves, PVC/CPVC unions and PVC/CPVC strainers, **Conbraco**-backflow preventers, safety relief valves, check valves, plumbing and heating products, **Central**-flange insulation kits, unions, STAC corrosion control, polyethylene fittings, electrofusion, **IPS**-plastic pipe cements, primers and cleaners, **Lasco**-Sch 40 & Sch 80 PVC & CPVC and PVC DWV fittings, **MIFAB**-roof drains, floor drains, cleanouts, carriers, grease traps, oil interceptors, access doors, tap primers, **Murray**-hose clamps, **Oil Creeks**-polyethylene piping systems, **RP&C Valve**-800 & 1500 class forged steel gate, globe & check valves, 1690 & 2690 class y-pattern globe & check valves, needle valves, boiler blow-down valves, **Shaw Valve**-150 & 300 class high performance butterfly valves, **Sloan Flushmate**-pressure assist flushometer tanks, **Speakman**-emergency eye wash & showers, mixing valves, sensor faucets, metering faucets, lav faucets, shower heads, pressure balanced shower valves, **Techno**-check valves-wafar, swing, elastomer hinged, plastic & metal construction, **Watson McDaniel**-steam traps, regulators, pressure motive pumps, steam separators, exhaust heads, clean steam products

**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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