

December 2004



American Society of Plumbing Engineers

Eastern Michigan Chapter

www.aspeemc.org

Serving our membership since 1975

Published monthly

Plumbing Design Class

Date: Tuesday, Dec. 14, 2004

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: Single Stack
Drainage Design

Speakers: Fabio Castellani
Walter Cornwall
(See bios on page 4)

Sponsors: Studor
Proset Systems

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

PRESIDENT'S REPORT

Esteban Cabello, PE, CIPE



As Thanksgiving approaches once again, I would like to give thanks to our many ASPE members who give their time in making this professional organization what it truly is - A Great Program. The list is too long to publish, but I will say that we have members involved in many aspects of our organization - standards committees, board of directors, speakers, code study development committee, the various chapter committees, various State organizations, and of course the various sister organizations such as ASHRAE, MSPE, ASSE, NFPA, ICC, MBPA and many others. Without the efforts of these individuals, it would be next to impossible to offer you the outstanding programs that we bring to you every month. Our next meeting will focus on single stack drainage systems. Looking at the horizon, the annual ASSE banquet will take place on January 29th, a heating and steam seminar will take place in April, and a plumbing code class will take place in April as well. As you can see, we have a lot to offer and we should be thankful.

*Wishing you and your families
peace and joy this Holiday Season,
Esteban*

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MISSION: ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of its members, and to the health, welfare and safety of the public.

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American Society of Plumbing Engineers

Eastern Michigan Chapter

2004-05 Technical Classes

*Held monthly at the
(except where noted)*

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

September 14, 2004
Plumbing Law Suits

October 19, 2004
Gas Piping Design

November 16, 2004
Piping Expansion and Seismic Control

**December 14, 2004
Single Stack Drainage Design**

January 25, 2005
Software For Plumbing Design

February 15, 2005
Plumbing Specialities (trap primer, water arrestor)

March 22, 2005
Replacement Standards For ASSE 1016 & 1017

April 26, 2005
Medical Gases

May 24, 2005
To be announced

Saturday Classes

April 2nd - Legislative Seminar
Michigan Plumbing Code Review Seminar

April 16th - Education Seminar
New Concepts in Hydronic Heating Seminar

YourName @ Any.Where

Please send your e-mail address to us at:
info@aspeemc.org

We need your help! The Eastern Michigan Chapter is planning on going paperless. This step would give the Chapter an opportunity to redirect resources to better serve our membership. Email addresses will be used for Chapter business only.

Backflow Prevention \$1000 SCHOLARSHIP

This nationwide scholarship competition was established to reward students that seek to increase their knowledge and understanding of how Cross Connection Control and Backflow Prevention help ensure safe drinking water. The competition is open to ALL students aged 14 to 19 in the USA and Canada. ABPA/BPMA are managing and judging the contest. The contest will be open from October 1, 2004 through January 31, 2005. Visit www.abpa.org or www.bpma.cc for rules and submission form.

Mark Your Calendars

January 25 Software for Plumbing Design
January 29 ASSE Michigan Chapter
Annual Awards Banquet (See p.6)



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

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.



Professor Plumber sez...

**Bill Grayzar, CPD
VP Education**

This month I would like first to congratulate ASPE Member Dave Jones of the John E. Green Company who attended the convention in Cleveland, where he took and passed the CPD Exam.

Great job and hats off to Dave Jones, CPD.

Innovative Ideas and Concepts

A new year is just around the corner and with a new year will come new codes, standards and innovative design ideas. One of the upcoming ideas is Siphonic Roof Drainage Systems. At the convention in Cleveland, I attended a course describing, in brief, Siphonic Roof Drainage and the concepts behind it. The speakers for the course were Michael Sommerhein (M.Sc, MBA) and Per Sommerhein (D.Sc).

Siphonic Roof Drainage was started in a laboratory at the Technical University in Finland in the early 1950's. A young engineer by the name of Olavi Ebeling was puzzled by the problem of vortexes propagating through his equipment for testing of plumbing fittings, slowing down test work. He solved the problem by placing a disk above the pipe inlet to the equipment. After leaving the test institution and starting his practice as a mechanical plumbing engineer, he recognized an opportunity to generate large costs savings by reducing the size of the copper piping that the Finnish government mandated be used in roof drainage. After a period of trial and error to understand how a roof drainage system utilizing full-bore flow could be created, his first patent application was registered in 1968. In 1972, Mr. Ebeling was joined by Per Sommerhein from Sweden to design the first large-scale installation of the system in Sweden for a large turbine factory. From that point on, the system rapidly gained market acceptance from throughout Scandinavia and became the standard in roof drainage.

Conventional roof drainage systems are based on atmospheric pressure and gravity flow conditions throughout

the system. Relying on the Manning Formula for open channel flow, air is assumed to be present in the pipes and flow capacity is directly dependent on the pitch of the pipes.

A siphon moves water horizontally and/or upwards through suction (negative pressure) created by water falling under the force of gravity in the downstream vertical sections of the pipes. The same effect is utilized in Siphonic roof drainage. Special Siphonic roof drains that restrict the ingress of air at high rainfall intensities make it possible to induce a siphon effect as water flow, with very little air content, reaches vertical sections of the pipe work and falls under the force of gravity. The falling water creates a negative pressure propagating upstream with fractions of seconds, inducing higher flow capacities.

There was, both, a lot of interest and a lot of concern by those in attendance at the seminar. In brief, what I learned from the seminar was that because the Hazen Williams formula was not accurate enough for sizing of Siphonic drainage systems, the Darcy formula was utilized for their sizing criteria. Also, in Siphonic roof drainage systems both negative and positive pressures are possible. Some key points to remember, if you are looking into a Siphonic drainage system, are size for a velocity of about 3 feet per second and you will need to account for slowing of velocity and the discharge of the system. The entire system was balanced, requiring a calculation for each branch of piping. The height used for Siphonic roof drainage calculations is based on the height from a surcharged catch basin rim to the roof line of the building.

This was only a brief overview of Siphonic roof drainage systems. I believe we will be seeing more of the concept in the near future, but I believe the concept has a long way to go before we see its implementation in design in the United States as an acceptable standard for roof drainage. If you would like additional information on Siphonic drainage systems, I have a handout I received at the seminar and would be happy to share with anyone interested in learning more on the concept of Siphonic Roof Drainage.

Look for a synopsis of other courses I attended at the Convention in upcoming ASPE newsletters.

*Happy Holidays!
Bill*

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Bradford White Corporation - residential & commercial water heaters, **Brass Craft Mfg** - stops & supplies for water gas, plumbing specialties/shower heads, **Charlotte Pipe & Foundry** - cast iron, PVC, CPVC, industrial & residential pipe & fittings, **Crane Plumbing-Fiat** - plumbing fixtures, mop bases, **Delta Faucet Company** - Delta, Peerless, Delta Commercial, residential & commercial faucets, **IPS Weld -On Water Tite Studor** - pipe cements, washing machine boxes, venting and drainage materials and air admittance valves, **MAAX Collection: Aker-Pearl-Manhattan** - tub showers, shower stalls and whirlpool tubs, **Olsonite Toilet Seats** - toilet seats, **Oasis Corporation/Sunrock** - electric water coolers and drinking fountains, **Watco Bath Wastes** - bath wastes & accessories, **Woodford Manufacturing** - wall & yard hydrants

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

December Speakers Bios

The December 14, 2004 Design Class speakers are:

Fabio Castellani is with Studor Inc, an IPS company. The Vice President in charge of the new Engineered Product Division, Fabio has 24 years experience in engineering sales of thermoplastic PVF. More recently, he has spent several years with acid waste and return air plenum rated acid waste systems for which he has written technical manuals as well as published articles.

Doug Cornwall comes from a Michigan family of four generations of plumbers, dating back to 1906. Although not a plumber himself, Doug worked for his dad, who is a

plumber, after school and in the summer time while he went to college. During that time, his dad, Ken Cornwall, invented Proset Systems and the family got into manufacturing and specializing in multiple-story structures. Doug's dream was to market his dad's invention and live in Florida. After he graduated from Michigan State's Business School with a Bachelor Degree in Business, Doug followed his dream by moving to Florida. "I've been involved with piping systems for 24 years and marketing the Sovent system nationally and internationally for 22 years. We have reps all over the country," states Cornwall.



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Did You Know?

Over the 10-year period (2002-2012), the Bureau of Labor Statistics predicts that the construction industry will grow 15.1%, just over one million jobs, increasing from 6.7 million in 2002, and reaching 7.7 million in 2012.

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VP TECH REPORT

Wes Patton

Hello everyone, I hope you had a great Thanksgiving. The Christmas holiday season is fast approaching with our last meeting of this year Tuesday, December 14. The topic of the December meeting will be Single Stack Drainage Design. Please remember to be on hand to get your questions answered on this topic. Many shortcuts to plumbing systems will be mentioned, during this meeting, that could reduce material cost in piping layout, etc.

Mark your calendars for January 25, for the topic of Software For Plumbing Design. This will be a meeting that you do not want to miss. Also, we will be starting our Saturday classes. Please remember to pre-register for the classes. Happy Holidays.

*See you in December,
Wes*

It's Time to Update Your Information!

Make sure we have the latest information for our Membership and Manufacturers' Representatives Directories. Contact Brett Young at (248) 669-2800, fax to 248 669-3310 or email byoung@burkeagency.com or call Mary Chapman at (313) 341 7661 ext. 210, fax to 313 341-1007 or email to mary@pmcdetroit.com with any changes in your personal or business information.

VP LEGISLATIVE REPORT

Ron George, CIPE/CPD

Last month, I attended the ASPE convention and the Legislative Committee meeting. Ray Moore was elected as the new ASPE VP Legislative for the Society Board. I wish him well in his code and standard efforts. Dick Wagner has been serving as the chairman of the Legislative Committee. Dick announced he will be stepping down and Ray Moore will be seeking a new legislative committee chairman.

I also attended the ASSE Standards Committee meeting and Seal Control Board meeting at the ASSE annual meeting last week in Miami. There were several standards

that were sent to the board of directors for approval. The ASSE Standards Committee also dealt with several complaints about manufacturers stating they comply with requirements, or meet requirements of an ASSE Standard, without applying for a test with a third-party testing lab or applying for an ASSE seal. The Standards Committee will be mailing letters to the manufacturers.

We are still working on sponsors for the seminars for this spring. I will let you know more details next month.

Ron

A Letter to the Readers

Vicki Hernandez, ASPE-EMC Newsletter Publisher and Web Site Administrator

For the past eight years, I've had the privilege of publishing the monthly newsletter and designing and maintaining the web site for the ASPE Eastern Michigan Chapter. But as of December 1, Mary Chapman will be handling the newsletter and web site.

During the years I've had the pleasure of getting to know many of you at the meetings and other special functions. I've also been able to work with some great board members - and this is what I'll miss the most.

I know that everyone will give Mary the same support that I have seen over the years.

I wish all of you and your families a wonderful, safe and happy holiday season.

Vicki

New ICC Appointees

In recognition of the valuable contributions and active participation by the Code Study and Development Committee of Southeastern Michigan in the code process, the International Code Council has appointed four members to sit on ICC national code committees.

Two members of ASPE-EMC were among those chosen:

Ron George, CIPE/CPD, was appointed to the Residential Plumbing and Mechanical Code Committee; and Barry Pines, CIPE/CPD, was appointed to the ICC Fuel Gas/Mechanical /Plumbing Code Interpretations Committee.

Others appointed include Paul Frost, a Southfield inspector, and Carl Schroeder, Training Director for the Local 98 Plumbers School. Both gentlemen are to sit on the ICC Plumbing Code Committee. Congratulations to all!

ASSE Michigan Chapter Annual Awards Banquet

Saturday, January 29, 2005

5:00 PM

St. John's Conference Center

44045 Five Mile Road
Plymouth, MI 48170

\$40.00 per person (\$45.00 / door)

\$75.00 per couple (\$80.00 / door)

Dancing and Entertainment

Sunset Boulevard Band

*Featuring Band Leader and Vocalist
Leslye Sklar D'Ascenzo*

**For information and registration form
contact PMC Detroit at (313) 341-7661**



Spotlight on our Members



Vicki Hernandez



Joe Hernandez

On behalf of all of us here at the Eastern Michigan Chapter of ASPE, we would like to thank you both for all your efforts during the past eight years, editing and issuing our newsletter and creating our web site. We will miss your professionalism, creativity and most of all, your caring for the success of our Chapter. We wish you well and we will miss you.

Esteban

See page 6 for a letter from Vicki.

THANK YOU...THANK YOU...THANK YOU

HISTORICAL MOMENT: MDPMCA/PHCCASM Merger **John R. Nussbaum, Administrative Secretary**

Editor's note: MDPMCA and PHCCASM are two associations affiliated with two different national organizations: the Mechanical Contractors Association of America and the Plumbing-Heating-Cooling Contractors National Association. Both groups have been coexisting under the Plumbing and Mechanical Contractors of Detroit (PMC Detroit) roof, where the monthly ASPE-EMC design classes are held.

November 11, 2004 brought together, under revised bylaws and a merger agreement, two of the oldest and most respected plumbing and mechanical contractor associations in Southeastern Michigan. The Metropolitan Detroit Plumbing and Mechanical Contractors Association (MDPMCA) and the Plumbing, Heating and Cooling Contractors Association of Southeastern Michigan (PHCCASM) will now operate under the MDPMCA identity. Members, present from both associations, voted unanimously to merge during the recent membership meeting at the Westin Hotel in Southfield.

PHCCASM, a 90-year-old association founded in 1914, has a proud history of being an industry leader in promoting licensing and regulations, plumbing codes and stan-

dards. PHCCASM moved their offices in 1986 from Lincoln and Greenfield in Oak Park to the MDPMCA building on West Eight Mile Road in Detroit, in order to more effectively serve the members of both associations.

The two associations have been partners through an agreement dating back to 1956. The Council Agreement allowed for the joint management of the Plumbing and Heating Industry Fund of Detroit, now the Plumbing and Mechanical Contractors of Detroit (PMC Detroit), and for joint representation of management, along with labor, on the plumber fringe trust funds. Both associations participated together in labor negotiations and contract agreements with Plumbers Local 98.

The leadership of both associations mutually felt, after 18 years of working together, it was time to come together as one and save the expenses of running two separate operations.

John R. Nussbaum, IPP FASSE, Plumbing Industry Consultant and retired Executive Director of PHCCASM

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ABS Pumps-sump & sewage pumps & systems, **Advance Tabco**-stainless sinks & fixture, commercial & residential sinks, accessories & faucets, **Ambassador**-wall & floor mount gas boilers with built in domestic water heater, **American Water Heater/John Wood**-commercial tank type water heaters, **Conbraco/Flomatic**-plumbing & heating products, backflow prevention devices, ball valves, **DWV Foundry/Matco Norca**-no-hub & service weight cast iron pipe & fittings, no-hub couplings, **Ecodyne**-commercial & industrial water treatment, R.O. systems, D.I. water, **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, **H.B. Smith**-commercial cast iron steam & hot water boilers, **Harmsco**-complete line of residential, commercial & industrial filters, **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, **Mifab**-roof & floor drains, carriers, interceptors, commercial drainage products, access doors, hydrants, **OmegaFlex**-flex gas piping & fittings, **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-plex, **Space Pak**-air conditioning systems, **Thermex**-point of use electric water heaters, **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, Koala Bear Kare-baby changing stations, activity products, **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, **Watt Drainage**-roof & floor drains, carrier systems, interceptors

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

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

Aldrich-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, **Holby 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, **Ruud Manufacturing**-commercial & residential gas-fired and electric hot water heaters & booster heaters, **Thaw-Pak**-custom 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

A.C.Tech-variable speed drives, **Advance Thermal**-removable insulation & accoustical covers, **ITT Bell & Gossett**-hydronic specialties, centrifugal pumps, heat exchangers, heat transfer pkgs, 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** -DowTherm SR-1, DowFrost, **Dri-Steam**-steam injection, gas to steam, steam to steam, electric steam, evaporative humidifiers, ultrasonic fog humidifiers, **Griswold 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, **Weksler Instruments**-pressure gauges, thermometers, recorders **Wessels**-ASME storage tanks, bladder tanks, glass lined storage tanks, glycol fill systems

Alsons-shower heads, hands showers & accessories, **American Mfg.**-pump controls & alarms, **Campbell Mfg.**-water system & filtration products, **CTS**-copper flange adapters, **Flint & Walling**-well pumps, jet pumps, water conditioning, **Hammond Valve**-valves & actuation, **Hydronic Alternatives**-radiant baseboard, radiators, accessories, **Laco Ind.**-fluxes, sealants, penetrants, caulk, putty, **Nomaco**-poly & rubber pipe insulation, **Milwaukee Valve**-valves & actuation, **Missouri**-threaded rod, **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, ward-flex, **Waterless Co.** -waterless urinals, **Zoeller Pump Co.**-sump, sewage & wastewater pumps & accessories

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Anaco/Husky-no hub couplings, transition couplings, SV gaskets, heavy duty & mid-range no hub couplings, **Aquarius**-acrylic & gel coat shower/tub-shower surrounds, **Chicago Faucet/Geberit**-hospital, commercial, laboratory, industrial faucets & fittings, pressure assist flushing systems, sensor faucets & flush valves, **Delany**-flush valves & sensor faucets, **Eemax**-electric tankless & mini-storage water heaters, **Eljer**-full line commercial & residential fixtures, **Haws**-emergency showers, eye washes, drinking fountains & water coolers, **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, Ruffwall systems

Aqua Bath-acrylic ADA tub & shower units, **Cooper Bline**-pipe hangers & strut systems, **Dupage Products**-threaded rod & hose clamps, **Freedom Plastics**-plastic pipe & fittings, **George Fischer Sloane**-electro fusion polypropylene products, **Green Mfg. Inc.**-loading racks & stairs, **Hayward Industrial Products**-plastic, pvc, cpvc valves, basket strainers, filters, pneumatic & electric actuators & solenoid valves, **Homestead**-plug valves, **Insul-Tek**-preinsulated piping systems, **Laboratory Enterprises**-laboratory fixtures & accessories, **Mission Rubber Co.**-"heavy-weight" no hub couplings, **Noble Co.**-anti-freeze non-toxic, CPE shower pan lining, **OPW Engineered Systems**-loading arms, sight flos, iso rings & swivel joints, **Richmade Co.**-pvc shower pan lining, **Rockford Sanitary Systems**-grease interceptors, oil separators, **Scientific Plastics**-lab faucets, sinks & neutralization tanks, **Sure Seal**-high performance butterfly valves & ball valves, **Webster Pumps** -immersible & centrifugal pumps

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 - ball valves, butterfly valves, pneumatic & electric actuators, thermostatic mixing valves, pipeline strainers, **Conbraco**-backflow preventers, safety relief valves, check valves, plumbing & heating products, **David Valve**-knife gate, CS/SS/CI gate, globe, check valves, **IPS**-plastic pipe cement, primers and cleaners, test plugs, **Josam**-roof drains, floor drains, cleanouts, floor sinks, carriers, manual & automatic grease interceptors, oil interceptors, electronic grease/oil level monitoring, trap primer valves, water hammer arrestors, **MEA-Josam**-polymer concrete & fiberglass modular trench drains, **Blucher-Josam**-stainless steel push-fit drainage waste piping systems, **Lasco**-Sch 40 & Sch 80 PVC & CPVC and PVC DWV fittings, PVC/CPVC/PVDF/PP ball valves, PVC butterfly valves, PVC/CPVC unions, PVC/CPVC strainers, **Murray**-hose clamps, **Oil Creek**-polyethylene piping systems, **Safe-T-Cover**-freeze & vandal protective enclosures for backflow preventers, **Speakman**-emergency eye wash & showers, mixing valves, sensor faucets, metering faucets, lav faucets, shower heads, pressure balanced shower valves, **Techno**-check valves-wafer, 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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