

October 2004



Eastern Michigan Chapter

www.aspeemc.org

Plumbing Design Class

Date: Tuesday, Oct. 19, 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
14801 W. 8 Mile Rd.

Topic: Gas Piping Design

Speaker: Julius Ballanco, PE

Sponsors:

Sales Service Plus
Viega

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

PRESIDENT'S REPORT

**Esteban Cabello, PE, CIPE
President**



As I write this article, the Lions are 2-0 and at the top of their division! The Eastern Michigan Chapter is also at the top. We try to bring the best for you and I am proud to announce just that. Julius Ballanco PE, is scheduled to be our speaker for October. Mr. Ballanco is our current

Society VP Legislative and Editorial Director of PM Engineer Magazine. I would hope that you register for this meeting, as it will be one of the most popular events we will hold this year.

I would like to thank Ron George (our VP Legislative) for securing our speaker last month and for giving the attendees an impromptu discussion on mixing valves and water heater installation tips. By the way, Ron also was instrumental in submitting several code changes (along with the Code Study Development Committee of Southeast Michigan) to the ICC (International Code Council) that were due just recently. John Nussbaum is the chairman of that group.

As a reminder, please note the following events into your PDA: ASPE Cleveland Convention October 23-27, ISH Boston October 14-16, and the ASSE National Meeting Miami November 5.

Your President,

Esteban

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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
(Dates to be announced)
Hot water/Hydronics
Code Review

2004 ASPE

Convention & Engineered Plumbing Exposition

October 23-27

Cleveland, OH

Over 3 football fields of exhibits
Over 300 manufacturers, suppliers and consultants with technical exhibits

New Products Showcase with over 50 displays

Earn CEUs

Complimentary lunch and snacks on the exposition floor

“How Fast Can It Go?” contest

Over 50 technical programs

Prize drawings including laptop computers and the Grand Prize pickup truck

CIPE exam

Cleveland fun including the Cleveland Theatre District, the Rock and Roll Hall of Fame and Museum and football.

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.



Professor Plumber sez...

**Bill Grayzar, CPD
VP Education**

If any of you are planning to attend the ASPE Convention in Cleveland, I strongly suggest you make a point to attend the Technical and Professional Development sessions offered on Tuesday, October 26th, 2004 and Wednesday, October 27th, 2004. Refer to the 2004 Convention flier sent to all members for the time and date of each session offered.

There are three courses offered each day under each of the following 6 categories:

- " Engineered Plumbing Systems
- " System Building Blocks
- " Special Systems
- " Piping Systems
- " Advanced and Emerging Technologies
- " Professional Development

I hope to see all of you at the convention in Cleveland.

Look in December's ASPE newsletter for information from the sessions that I will be attending during the convention.

Bill

Below are the answers to last month's questionnaire:

Test your skills!

The Manning Formula =	__i__	a: 0.433 psi
Hydraulic Radius =	__e__	b: $h = (f L V^2) / (D^2 g)$
Quantity Rate of Flow =	__m__	c: 2.31 feet of head
1 gallon of water =	__f__	d: $p = (w / 144) \times h$
1 cubic foot =	__k__	e: $R = \text{Area of Flow} / \text{Wetted Perimeter}$
1 cubic foot of water =	__l__	f: 8.33 pounds
1 psi =	__c__	g: $Q = 3550 (d^5 / (1 + 3.6/d + 0.03d))^{1/2} (h / SL)^{1/2}$
1 foot of head =	__a__	h: $L = (2226 d^5) / (f q^2)$
1 Watt of electricity =	__j__	i: $V = 1.486/n \times R^{2/3} \times S^{1/2}$
Allowable length of a vent stack =	__h__	j: 3.41 btu/h
The Darcy formula =	__b__	k: 7.48 gallons of water
The Spitzglass formula =	__g__	l: 62.4 pounds
Static Head =	__d__	m: $AV = A \times 1.486/n \times R^{2/3} \times S^{1/2}$

Questions?:

What is the "Manning Formula" used for? calculating the velocity of uniform flow in sloping drains

What is the "Darcy Formula" used for? Friction head loss or friction between the air and the pipe wall

What is the "Spitzglass Formula" used for? to determine the gas capacity for various pipe sizes

VP TECH REPORT

Wes Patton
Vice President Technical

Thanks to our last speaker, Mr. Tom Wuri, attorney at law, the chapter had a great September meeting. His presentation on hot water scalding law suits proved to be very informative and thought provoking. He was able to answer many questions on the subject. (For an interesting side note on this subject, please read Ron George's VP Legislative report on the ICC hearings this past fall regarding an attempted code change to provide temperature limits for bathtubs.)

Fall is here, therefore buckle up for October, a month full of great events. At our next meeting on October 19, the class session will address gas piping design using flexible piping and etc. This is a class that I am sure that you will not want to miss. The speaker will

be Mr. Julius Ballanco, P.E., Editorial Director of PM Engineer and president of J.B. Engineering and Code Consulting P.C. If you want to enhance your knowledge on this subject, Mr. Ballanco is a speaker that always gets his audience's attention. As always, please remember to pre-register for the classes in order to obtain an accurate attendance count. It only takes a few clicks to register at www.aspeemc.org.

Going to the 2004 ASPE Convention & Engineered Plumbing Exposition? You should. This year's Exposition on October 23-27 is featuring many informative classes. In addition, many companies will be displaying products for on hand demonstrations.

Other things to look forward to this year: Night at the Races and a golf outing.

See you in October.

Wes

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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, **Wirbo**-aquapex professional plumbing systems, HePex radiant floor & snow-melt

VP LEGISLATIVE

Ron George, CIPE/CPD
Vice President Legislative

The deadline for code changes has come and gone. Several members of our chapter serve on the Code Study & Development Committee of Southeast Michigan. The committee submitted over a dozen code changes to the International Plumbing Code for the 2006 Code cycle. In a few months ICC will publish all of the changes in a code change proposal book and the code committee will meet again to review and form a position on all of the code changes. The code committee usually has a representative testify at the code hearings on behalf of the committee. The late John Matthews was the former chairman of the committee and did an excellent job of preparing notes and providing testimony at the code hearings. This year will be our first code hearings without John and we have put out the call to committee members to step up and fill in for John. This year we expect to have Barry Pines, Bob Cesleiga, John Nussbaum and several inspector members to fill in testifying for or against code changes. The committee meets and forms an opinion, but if they hear testimony at the code hearings they are allowed to discuss the issue and change their position based on testimony.

I am looking forward to meeting and going over this year's code changes.

I have been active this summer attending the ASME standards council meeting in Seattle, Washington and two Ad Hoc committee meetings for the Uniform Plumbing code in Ontario and California dealing with grease interceptors. I also attended the uniform Plumbing Code hearings in Denver, Colorado.

I attended the International Code Council's final action code hearings in Kansas City this summer. One of the interesting code changes that got turned down was a code change to provide temperature limits for bathtubs. During last years fall code hearings the Ad Hoc Committee on Hot Water temperatures that I served on, submitted a code change to provide temperature limits for Bathtubs. Currently Bathtubs and whirlpool bathtubs have no maximum temperature requirements. This makes an unsafe condition where someone can be easily scalded in a bathtub without a shower. The ICC Ad Hoc Committee on hot water temperatures proposed a code change to limit the hot water delivered from bathtub fixture fittings to a maximum of 120 degrees F. The com-

mittee had previously removed a reference to ASSE standard #1070 which is a thermostatic mixing valve for point-of-use applications. The standard was not published in its final form last fall so that language was not included in the original code change. This summer at the code challenge hearings, Tim Kilbane offered a challenge to the code change to add the ASSE 1070 standard to the code change. There were other manufacturers that argued for thermostatic mixing valves for bathtubs and apparently some members at the meeting were confused, so the code change failed and so did the 120 degree protection offered for bathtubs. The ICC Ad Hoc committee on hot water temperatures will resubmit the code change to try and address temperature limits for bathtubs & whirlpool tubs again.

I will be attending the International Code Council Business & Education Conference in Salt Lake City, Utah September 25-28 and then I go the Reno Nevada for the International Association of Plumbing & Mechanical Officials Annual meeting & Education conference. I should be back by October 3rd. I will give an update of what goes on next month.

ICC Code Update

The International Code Council has published their code development schedule for the 2006 International Codes. The code hearings in the spring of 2005 will be in Cincinnati, OH and the Final Action Code Hearings will be in our backyard at COBO Hall in Detroit. If you have never attended the code hearings, I urge you to mark these dates in your calendar and plan on attending these meetings. Please see the code development schedule below:

2004/2005 ICC CODE DEVELOPMENT SCHEDULE

September 26-29, 2004

International Code council Annual Meeting Dates:
2004 Codes Forum
Salt Lake City, UT
Salt Palace

December 21, 2004.

Publication date for Monograph of "Proposed changes to the International codes"

January 22, 2005- (Tentative subject to J. Nussbaum clearing the date with PMC Detroit)
Code Study & Development Committee of Southeast Michigan
Meeting at PHI to review Proposed Plumbing Code Changes 1-70

VP Legislative

continued from previous page

January 29, 2005 - (Tentative subject to J. Nussbaum clearing the date with PMC Detroit)
Code Study & Development Committee of Southeast Michigan
Meeting at PHI to review Proposed Plumbing Code Changes IPC 70-100, (& other code changes as necessary Private Sewage Disposal, Residential Code, Mechanical Code and Fuel Gas Code.)

February 21 - March 2, 2005
2005 Code Development Hearings
Millennium Hotel Cincinnati
Cincinnati, OH

May 2, 2005

Publication date for the "Report of the Public Hearing".

June 17, 2005

Deadline for Receipt of Public Comments of the "Report of Public Hearings"

August 24, 2005

Publication Date of Public Comments
"Final Action Agenda"

September 28 - October 1, 2005

2005 Final Action Hearings
COBO Center
Detroit, MI

ASPE Eastern Michigan Chapter Legislative and Education Committee Seminars

The Eastern Michigan Chapter of the American Society of Plumbing Engineers has planned two Educational seminars for 2005. These Seminars will be all-day Saturday seminars. Please mark these dates on your calendar or post a note for next year's calendar.

Saturday April 2nd - Legislative Seminar Michigan Plumbing Code Review Seminar

This Seminar will be an all day seminar covering the International Plumbing Code and the amendments in the Michigan Plumbing Code. The seminar will also cover recent code changes that will appear in the 2006 International Plumbing Code and eventually the Michigan Plumbing Code. Attending this seminar will bring you and or your employees up to speed on the current issues of the Michigan Plumbing code. The Instructor will be Ron George, CIPE, CPD. Ron has been a member of the International Plumbing Code Committee and he has attended every code hearing for the last 10 years. Ron is also a member of the Code Study & Development Committee of Southeast Michigan. He will review the significant portions of the Michigan Plumbing Code from cover to cover.

Saturday April 16th - Education Seminar New Concepts in Hydronic Heating Seminar with Dan Houlihan

The Eastern Michigan Chapter of ASPE is working to secure Dan Houlihan as our guest speaker for an all-day Saturday hydronic seminar. Dan is a world renowned author and publisher and he has a website called heatinghelp.com

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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 systmes, 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

Nibco Inc.

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badgerod@nibco.com
www.nibco.com

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

Performance Engineering Group

Engineered Water Products
32955 Industrial Rd.
Livonia, MI 48150
Alan Deal
Ph 734 266-5300 Fax 734 266-5310
www.performanceengineering.com

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

R.L. Deppmann Co.

Southfield * Grand Rapids * Saginaw
Southfield Office: P.O. Box 5023
20929 Bridge St.
Southfield, MI 48086-5023
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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

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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, wardflex, **Waterless Co.** -waterless urinals, **Zoeller Pump Co.**-sump, sewage & wastewater pumps & accessories

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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

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.**-"heavyweight" 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

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