

January 2003



## Plumbing Design Class

**Date:** Tuesday, February 4, 2003

**Time:** 3:00 - 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:** Forming a Code Standards Committee between ANSI/ASTM/ASPE

**Speaker:** Julius Ballanco

**Sponsors:**  
Mr. Dane Badgero of Nibco Valves  
Mr. Alan Thomas of  
Cast Iron Soil Pipe Institute

***Please confirm your attendance through the web site at [aspeemc.org](http://aspeemc.org), e-mail to [progress1@comcast.net](mailto:progress1@comcast.net) or phone Doug Cryer at 313-406-2693***

## **SPECIAL NOTICE**

The date for the May general meeting and class has been changed from  
Tuesday, January 28, 2003  
to  
Tuesday, February 4, 2003

We apologize for any inconvenience.  
Thank you

## **PRESIDENT'S REPORT**

**Joe Hernandez, CIPE/CPD  
President**



I would like to wish everyone a Happy New Year to all and also the hope for a prosperous one from the Eastern Michigan Chapter.

The first order of business is to announce that the date for this month's general membership meeting has been changed to February 4. Mr. Julius Ballanco, the scheduled speaker, needed to have this program postponed for one week due to personal reasons. Again, make note that the January meeting is moved one week to February 4.

Our January (February) meeting will cover the code writing process and how to make amendments. Doug Cryer, VP Tech, will give all the details in his report. This will be a great program because the IPC commission is putting together plans for the review of the current code. They are actively seeking members for the panel of reviewers. Interested? Contact John Nussbaum at 313-345-3535.

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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 4, 2003** **Forming a Code Standards Committee** **between ANSI/ASTM/ASPE**

February 25, 2003  
Green Buildings - what does that mean?

March 25, 2003  
To be announced

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)*

## **President's Report**

*continued from pg. 1*

During the month of February we here are keeping true to our reputation of being the Education Chapter of ASPE. February 15 is the Fire Protection Class. As usual, our members will receive a reduced registration fee. (It pays to be a member!) The cost for this seminar workshop is \$75 dollars for members in good standing and \$100 for non-members. The course will net .25 CEUs for 8 contact hours and 3 ASPE REUs applicable to the CPD recertification. It will cover all areas of fire protection and will have plenty of design material. The speaker for the major portion and the "hands on" design segment is Mr. Ernie Yonkers, PE, of Albert Khan Associates of Detroit. Ernie has plenty of experience and is a nationally recognized expert by the National Fire Protection Association. He will indeed cover all the latest NFPA codes, i.e. 13, 99, etc. Bring your calculators and be ready to learn - this is a good one. A brochure is on the way, so keep an eye on your mailbox. The two-day "Basic Plumbing Class" featuring an Autocad files is in the works.

We also have some good things to look forward to in March: spring, Nite at the Races and our general membership meeting. I know spring is always welcome, the meeting will be good, but the fun one is the Nite at the Races in Northville. The date is March 21, the cost is \$27 per person, which includes dinner and a whole lot of fun. I can't guarantee you'll win on the trotters, but it sure is a great time. As always, one of the races will be dedicated to the Eastern Michigan Chapter. Our March meeting is at the Masco Showrooms in Taylor with an art exhibit and showrooms tour. This is a special one because you can bring your wives, husbands or significant others. There will more information on this gig in the February and March newsletter.

Still having trouble keeping those dates, appointments and phone numbers? Well one special member will be the recipient of a Palm 105 for the best or perfect attendance. Make sure you sign in with our hospitality host, Cindy Zatto, at our general membership meetings. We do have another option open to all who attend the general membership meetings and would also like the opportunity to secure a personal organizer. We were lucky in Texas and received 4 PDOs through promotional programs from the Product show at the Convention. We will be auctioning off these PDOs along with other Chapter items to benefit the ASPE Research Foundation. Other items up for auction are golf shirts, data books, design guides and other stuff. Auctions are fun!

Wishing you all again a happy  
and wonderful new year.

*Joe*

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**

I hope everyone had some fun and excitement over the Holiday. The Big 10 sure knows how to kick some butt, including those Buckeyes beating both U of M's in the country, in the same season. I am at a loss for words, except welcome back to our second half of the Technical presentations for the Eastern Michigan chapter.

This month we will not have our scheduled meeting on the fourth Tuesday, January 28th, due to previous commitments with our esteemed guest speaker, Mr. Julius Ballanco. We are happy however, to inform you that he will be available to speak to us the following Tuesday, February 4, 2003. The Board of Directors apologizes for any inconvenience that this may cause our membership for the rescheduling snafu.

With that said I would like to talk some on our topic for this month of Codes, Standards and Committees. I have never met anyone who completely understands Codes and how they are worded. Codes are often ambiguous and open to subjective interpretation by the plan review professional, which sometimes differs from what the engineer or designer is thinking or planning for. Codes are "Rules" of process.

Standards are different. Standards are not "Rules". Standards are a guideline by which, we professionals utilize for design calculations and schematic equipment planning for equipment sizing. Standards are engineering "Rules of Thumb" that are passed on to the new generations of engineering and design professionals as others move up in stature or even leave the business. Standards are not secrets. They are most of the time, construction and calculation processes that are beneficial to help us do our jobs.

Committees. Everyone knows about committees. Volunteerism. Time consuming. Thoughts about how nobody wants to hear **my** opinion. Plus too often there are too many opinions. Political rhetoric. Double speak. In-fighting. Personal Agendas. All true, in **my** opinion.

On February 4, 2003 at 3:00 pm until 9:00 pm we will expect your attendance for our own political agenda. That is, effect change. Some of the definitions of effect are, "power to produce results" and "the state of being effective or operative". This meeting with Julius Ballanco as our motivational speaker will try to emphasize that our voices can be heard and we can cause things to change. We, the

Eastern Michigan Chapter of ASPE, are perfect for the assignment of effecting change in our Codes and Standards. Julius will show us how he has worked to effect change throughout the plumbing industry for quite a few of his professional years. He is a leader in our industry, who is very dynamic and passionate in his speaking about codes and standards. He is an advocate for change and clarity in wording of codes.

Julius' presentation will be starting early because he wants to cover much information, as well as get feedback from us on our difficulties, questions, inconsistencies and any other frustrations we can think of. This is where the committees come into play. I am not totally sure how the logistics will be handled for our long format, but I know one part we will discuss standards that ASPE can "effect" jointly with ASTM/ANSI and I think the other portion will break into groups of sub-discussion and get a feel for what it takes to effect change through the Democratic (or should I state, Bureaucratic) code forming process. If we are successful in whatever we try to achieve during this meeting, then a couple of you may end up as Julius' helpers in the fight against code ambiguity and help pave the path toward an ASPE Nationally recognized Standard of Practice. Ultimately, sharing your opinion is the first critical step to be heard. Julius listens very well. However, when he speaks, others listen intently to his opinions. Come and help ASPE effect change.

In addition, please mark your calendars for Saturday, February 15, 2003 for the Fire Protection Class that will be held at the PMC Building. You will be notified in a couple of weeks with a separate informational mailing and application for attendance.

Finally, please do not forget about the "Nite at the Races" event for Northville Downs on Friday, March 21, 2003. Information will be forthcoming.

## And the Winner is...

**Congratulations to Ron  
Ellsworth of M.E. Engineering  
on winning \$50.00 on the  
50/50 raffle at the  
December ASPE meeting.**



**Ron also won the drawing for 2 Detroit Pistons  
tickets donated by Burke Agency.**



# February



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	

## Mark your calendars

### February 25, 2003

## “Green Buildings - what does that mean?”

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# NITE AT THE RACES



**Friday, March 21, 2003**

**Northville Downs**

**Northville, MI**

For more information contact:  
Scott Knight, Knight Sales 313 534-9800



# Legislative Report

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

I would like to take this time to welcome everyone into the New Year and reflect on the past year.

## *Plumbing Law-*

We have seen this law come up for many years. This year it was taken from the committee stage and passed the House. From there, it was taken to the Senate for which some revisions were made and is currently in the Senate committee.

## *National Conference-*

This was the year of the National Conference. It was my pleasure to get to go and meet new people and see many familiar faces. There was a diverse group of topics to enhance the knowledge of professionals in the industry. The group from Eastern Michigan represented our chapter well. Attending the National Conference is a great experience for all levels of individuals in the industry. I would encourage everyone to attend if it is at all possible. The support, knowledge, and friendships are priceless.

## *State Plumbing Code-*

Our state plumbing code has been in effect now since the Summer of 2001 and the next issues is getting ready to be published and reviewed. Eastern Michigan has the honor of having members on the committee to review the Michigan Plumbing Code. Please put your hands together for John Matthews, John Nussbaum, and Carl Schroder. They will do a fine job of combing through the code with the best interest of the industry in mind.

## *STATE PLUMBING BOARD MEETING UPDATE*

Anyone planning to take the Master or Journey exam is encouraged to submit names as soon as you know you are planning to take the exam. This is a tremendous help to the board to review all the information they require.

Duane Branch and Walt Maner had an appointment to meet with the committee reviewing the Plumbing Law on December 3, 2002 to explain and answer questions relating to the law.

As of December 16th, a plumbing permit application has been placed online. It is accessible via the Michigan.gov site. From there, you must click on the 'State Web Sites' at the top of the page. There, you will find the Consumer and Industry Services

The next Board Meeting will be January 15, 2003 at 10:00am at 2501 Woodlake Circle, 2nd Fl., Okemos, MI.

## *NATIONAL UPDATE and HELPFUL WEBSITES*

2003-2005 Tentative Codes Development Schedule

Publication of 2003 Code Editions: February 2003

2003/2004 Code Development Proposals Submittal

Deadline: March 3, 2003

Code Development Proposals available: September 5-14, 2003 (Opryland Hotel, Nashville, TN)

Report of Hearings Available: November 14, 2003

Public Comment Deadline: January 14, 2004

Final Action Agenda Available April 1, 2004

Final Action Hearings: May 2004 (location and date TBD)

Publication of 2004 Supplement: August 2004

2004/2005 Code Development Proposals Submittal

Deadline: August 20, 2004

Code Development Hearings: February 21 - March 2, 2005

Final Action Hearing: September 27-30, 2005

Publication of 2006 Code Editions: February 2006

This schedule 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 email 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.

## **ASPE loses long time member**

Thomas P. Konen, long standing member of ASPE, passed away on December 17, 2002. He was the head of the Plumbing Test Laboratory at Stevens Institute of Technology.

Tom will be sorely missed in the profession.

Condolences may be sent to:

Phyllis Konen  
1052 Rector Road  
Ridgewater, NJ 08807

## Ann Arbor Fire Protection

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**Eljer Plumbing Ware** - commercial/residential toilets-1pc/2pc, flushvalve, pressure assisted, kitchen sinks-cast iron, lavatories-drop in, wall hung, pedestal, whirlpools-cast iron, acrylic, faucets-chrome, polished brass, colors, accessories

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**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

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

## Merlo Steam Equipment Co., Inc.

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## Nibco Inc.

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Engineered Water Products  
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## Quality Water & Air, Inc.

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## R.L. Deppmann Co.

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Southfield Office: P.O. Box 5023  
20929 Bridge St  
Southfield, MI 48086-5023  
Mary Anderson  
Ph 248 354-3710 Fax 248 354-3763

**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, **Tlaw-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/Cielo 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 Creek**-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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