

December 2002



Plumbing Design Class

Date: Tuesday, December 10, 2002

Time: 5:30 - 8:30 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: Snow Melting and Radiant Floor Design

Speaker: Mr. Dan Screen,
Regional Manager of Stadler Viega

Sponsors:
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Please confirm your attendance through the web site at aspeemc.org, e-mail to propress1@comcast.net or phone Doug Cryer at 313 562-7685

PRESIDENT'S REPORT

Joe Hernandez, CIPE/CPD President



Well the weather outside is frightful and still so delightful, oops, I got carried away, sorry. The last meeting of the year 2002 is almost here. On December 10, we will be covering Snow Melting and Radiant Floor Design. Doug has lined up a great speaker. Good stuff, see Doug's report.

We are back safe and sound from the convention that was held in Dallas. It is always wonderful to see people from other states that are there together for a common cause - plumbing engineering. It was a lot of fun and at times tiring. One important thing that permeated the air was the new ASPE magazine. I have to tell you, I think it's great. From cover to cover the magazine brings a boatload of information and best of all it belongs to us, the ASPE. CDP recertification is possible through the ASPE magazine after completing an exam on the specified subject and submitting it for review. There was a call for articles and comments and it has been reassured that all submissions will be considered for publication. Doug has a full reporting of the convention and the make up the new board of Directors. There is a new sheriff in town, I mean president of the Society, is Mr. Larry Oliver. We wish him much success.

Another issue rose to the surface during the delegate debate that needs to be mentioned is the membership dues. The increase was necessary this year and will most like stay the same rate next year. The Eastern Michigan Chapter proposed that before any future increases, it would be required to petition the general membership for approval. We lost, but still we needed to try. It's our job to be a voice of our members.

Our Fire Protection workshop is scheduled for February 15 at the PMC. The format will have three sections covering information, design and application. The design portion will include hydraulic calculations and pump design just to name a few. A brochure will be mailed out soon to our entire southeastern community.

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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***

January 28, 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*

President's Report

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Our Basic Plumbing workshop is still in the developing stage. The plans will be finalized right after the holidays. I can tell you this much. It will be a two-day workshop divided between two consecutive Saturdays. REUs and CEUs will be given to all those attending.

Last month we joined with ASHRAE to visit Ford Field. What a tour! Let me take this time to thank Alan Deal, PE, of Performance Engineering to make this memorable event possible. Ford Field is truly a gem of the city of Detroit and the standard setting for future facilities of the NFL. John Richards of SmithGroup was excellent in the presentation to the engineering community. The gathering was the "who's who" of engineers and that included the Toledo chapter of ASHRAE. Let's do it again and hopefully soon. If you would like to see Ford Field, I guess you'll just have to go to a Lion's game. (ouch!)

The ASPE Research Foundation finally has a permanent home at the University of Texas A & M. The Research Foundation is independent and depends upon donations for its operation budget, so funding is a real problem. A request for assistance in funding was heard at the convention. Therefore, with a solid program established, the Eastern Michigan Chapter fully supports the efforts of the RF and will do what it can to help this cause. We will be conducting an auction of items specifically for the RF. Items such as design wheels, golf shirts, ASPE ties and PDOs (personal digital organizers by Sharp) will be available for bidding on. Remember all proceeds will go directly to the RF.

Lastly, the date and location for the Nite at the Races is March 21 at the Northville Downs. There has been a slight increase in the cost to \$27 person. Last year's Nite at the Races was a huge success with all having a great time. Tickets will be available in January.

Wishing you all a happy, safe
Holiday Season and Happy 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.

VP TECH REPORT

Douglas W. Cryer, CSI CIPE/CPD
VP Technical

As I mentioned at the October meeting, we are changing the December topic to **Snow Melting and Radiant Floor Heating Design**. This session will teach us how to calculate the heating btuh requirements for interior or exterior thermal conditions (usually around 40 degrees at surface) and enlighten us on different methods of achieving these requirements.

Two methods of providing radiant energy in floors or exterior walk or driveways are hot water with glycol solutions or electrically. Each method has its benefits and drawbacks to achieve the end results.

For instance, the hydronic method requires more equipment. Such as natural gas load and piping for the boiler, direct flue venting or combustion air ductwork fans and louvers, hydronic piping, hangers, insulation, valving for zones and balancing, pumps for zones and injection, (if required), as well as, electricity to power the pumps, boiler ignition and controls.

The electrical method does not require floor space for a boiler, natural gas, hot water piping, valves or pumps, but the electrical load will certainly be greater on the end user. If the system is designed properly, the electrical method can be a reasonable and viable solution for its intent.

Installation of snow-melting systems require coordination and timing between the exterior masons, cement personnel and snow melting installation contractor, since the piping or the electrical resistance wiring should be attached to the structural re-bar supports with tie-downs prior to pouring the concrete within its area of formwork. Steps and their tread formwork construction are very tricky to accomplish while maintaining the desired depth below the top of concrete and still achieve temperatures above freezing on the stepping tread.

We will review coverage for exterior bituminous, concrete, like streets, sidewalks and driveways or interior foyer tile surfaces with their specific requirements and also review an interior layout in a residential type application for kitchen, living room or bath floors.

There are many differing styles of radiant floor construction. I am planning our discussion to describe the styles, applications with pros and cons of each, so the designer has a better understanding of what his or her choices can be. Including their strengths and limitations. As engineers and designers, it is always nice to understand the choices and differing nuances to help form the owner's ultimate decision on which

method suits their needs. I helped an owner decide which zones should be primary and secondary on a project and also suggested that the public entrance of the building be included in the scope of construction bidding. All I mentioned was that this could prevent any public liability (*"I've fallen and I can't get up"*) cases against the municipality. They agreed. That owner incurred a first time cost that will pay back in the long run.

Some of the savings an owner will also see are the longevity of the exterior surfaces from freezing, thawing, cracking, spalling and scaling from salt or other chemicals. Not to mention the labor and potential employee back injuries as a result of shoveling or the associated cleanup within the building with one's salted, wet, slush covered shoes entering and exiting the doorways. Do not be afraid to bring these points up to the architect, as it will make him or her appear considerate and thoughtful in the mind of the building owner. *While we are just doing our jobs!*

In doing our jobs so well, we also must consider proper specification writing for Snow Melting and Radiant Floor installation. This is very critical and must be thoroughly considered due to a potential trade crossover.

The mechanical specification writer should include this in the 15700 section numbering. Section 15770 of the CSI Master Specification Guide indicates such a section titled, "Floor Heating and Snow Melting". This section covers both hydronic and electrical materials and methods of installation. However, I will inform you that if the mechanical trade has the electrical snow melting included in their pricing, then there will be an inflated mechanical cost associated with this, do to the hiring of another trades person to perform the installation. Here is a great example of where the specifications and drawings must be well coordinated to act as one document, without ambiguity. Proper performance depends on proper calculation documentation and coordinated installation practices.

Calculation documentation will be a focus of this meeting too. Bring your calculators and scratch pads to this technical session to do some actual area calculations for btuh loss, gpm flow requirements and appropriate pipe sizing, as well as, electrical conversions to kW, voltage requirements and amp draw considerations for circuit sizing.

Controls for snow melting and radiant floor systems will conclude our presentation for the evening and draw to a close an invitingly warm session prior the beginning of our joyous holiday season and end to another year. Please plan on attending and do not forget to RSVP.

May you all find some place warm and filled with the spirit of the season.



January



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	

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between
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ASPE 2002 Convention and Engineered Plumbing Exposition

October 26-30, 2002 Fort Worth, Texas

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

October 31, 2002 - the day after the 2002 ASPE Convention and Engineered Plumbing Exposition. It was busy, tiring, enlightening, entertaining and full of friendly faces new and old. I saw many people from our Region II area of the country that I got to meet at the Region II meetings that were sponsored by the Western Michigan Chapter this past June. There were people that I did not know, who now know me all too well. The Chicago Chapter is the most fun chapter in the United States! They throw a continuous party.

It wasn't all partying though. As your Eastern Michigan Vice President of Technical, I was included as a delegate for participation in the National Convention. The Delegate designation allowed me access to the Convention Floor for voting on many items. The agenda was full. We discussed by-law changes that affect how the state chapters and National Board of Directors conduct day-to-day business or membership issues. There were 15 by-law amendment issues. Eight were adopted with two having revisions added to the wording. Seven other amendment issues were rejected and one of those amendments was to create an additional position to the Officer's Board. The delegates rejected this vigorously.

I have never been to any conventions as a delegate prior to this one and I was profoundly disturbed by what 350 others and I were subjected to. I felt trapped like a caged fox. Once the meeting starts with all the pomp and circumstance of flag bearing honor guards and the recorded singing of the National anthem by Whitney Houston, President, David Chin, called the meeting to order. At first I was invigorated, then by late afternoon and numerous breaks later, including a sad episode with one of our delegates having a diabetic seizure during the session. All of the candidates for positions on the National Board of Directors were given an impromptu question from one of the state delegates present and the candidates had three minutes to respond. This seemed endless and very much like the campaign ads we see on our televisions right now. All of them had a better idea of how to change the system. It all sounded like political rhetoric to me. I agree that our system of democratic process is necessary for selection of government or elected officials and in our case National Board Members, but I did not realize that after listening for more than a hour I was not happy with

any of the candidates and would have voted for Fidel Castro, if that would have gotten me out of the meeting on time, or at least close to it.

It is very difficult for an outsider like myself to know, understand or grasp the magnitude of what a national Board Member is responsible for. One of the main issues that prevailed throughout our meeting was the increase in yearly membership dues. I'm sorry to say that this increase is a necessary evil in our national ASPE pocket-book. I was also disheartened to hear how much we are financially in the red with our accounting practices. If this were a corporation, we would be filing for bankruptcy.

There was finger pointing and much blame posted, but very little substance offered by the new candidates to correct the problems that are prevalent within the National Society level. As a delegate, I was given a right to complain and a right to change the direction of the Society. If I am going to have any say in how the national Board is managed, then I must get more involved with knowing the underlying issues of the national Board of Directors and try to help make the correct decisions in voting for the proper individual in another two years.

For the next two years however, our national Board of Directors are as follows:

President - Mr. Larry Oliver, CPD

Vice President, Technical - J. Joe Scott, II, CPD

Vice President, Education - Mr. John Norman Parks

Vice President, Legislative - Mr. Julius Ballanco, P.E., CPD

Vice President, Membership - Mr. William Hughes, CPD

Secretary/Treasurer - Mr. Ray Moore, P.E., CPD, CGD

The next Convention and Exposition is in 2004, in Cleveland, Ohio. At that time, I will be better prepared to know the candidates positions and will hopefully have additional support from our growing local membership and local chapter board leadership. I know that politics are mostly personal, but I cannot stress enough how important it is for us to increase our membership and each person's involvement at the local chapter level.

As our chapter membership increases, so do our number of delegates allowed to attend and vote at the national Business Session level. This is important if one wants to effect change. The Eastern Michigan chapter has a position or agenda that we feel could better serve the membership throughout the United States, Canada and potentially Internationally.

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Legislative Report

Jill J. Dirksen
VP Legislative

STATE PLUMBING BOARD MEETING UPDATE

The next Board Meeting will be December 3, 2002 at 10:00 am at 2501 Woodlake Circle, 2nd Floor, Okemos, MI.

NATIONAL UPDATE and HELPFUL WEB SITES

Please take a minute to visit the International Code Council web site, you will be able to view the ICC Code Development Schedule for the next few cycles. If you have forgotten the web site, it is as follows:
www.intlcode.org.

The ICC Joint meeting of BOCA, ICBO, and SBCCI was just held in Ft. Worth, TX on September 29th through October 4th. They have agreed to become one body under ICC and dissolved their individual organizations. This will take a few years to streamline, but it is on its way.

Also, during the ICC Joint meeting, the Philadelphia Single Stack System was denied and all of the air admittance valve changes were denied. Currently, the stack type air admittance valves are permitted in the

International Residential Code, but not in the International Plumbing Code. Stainless steel tubing may now be used as new water piping material.

Any of you that may be doing work in the Maryland area (just outside of DC), will now reference the IPC. It was adopted.

Texas just recently adopted the International Energy Conservation Code. This was a statewide adoption.

DESIGN STANDARDS

Julius Ballanco has been voted in again as the Vice President Legislative position. Congratulations! He has some exciting items planned for the agenda in the coming two years. First off, he will continue in the search for individuals that are looking to get involved to help out with the Design Standards Committees. As of right now, 12 applications have been turned in and he needs at least 24 to start working on anything. It is hard work and there will be two meetings in Chicago that will need to be attended, but it is all worth the effort when ASPE starts presenting formal standards for the industry. If you are interested, please contact me. I will be able to give you an application to fill out and send to Julius. I will also require your e-mail or fax number to send out the application.

ISH 2002 Toronto

Cindy Zatto

Member ASPE, ASHRAE, ASSE

ISH (International Sanitation & Heating) exhibition was held in Toronto Ontario Canada October 31st - November 2nd. This was the first North American International Trade Fair for Kitchen & Bath, Plumbing, Piping, Heating and Air-Conditioning. Over 400 industry leading manufacturers and suppliers showcased thousands of new products and services.

This was the first time some international manufacturers displayed their products for USA and Canadian markets. Displays included many design oriented kitchen and bath products, high efficiency and compact equipment, valves, PEX piping, software and other innovative products. Much networking with manufacturers, wholesalers, reps, engineers and contractors took place.

The American Supply Association and The Plumbing-Heating-Cooling Contractors National Association annual conventions were held during the week in conjunction with the ISH Trade Show.

The timing of this event, during the same week that the ASPE National Convention was held, seemed to keep engineer attendance to a minimum. But mark your calendar for October 1st - 3rd in 2003 for the 2nd ISH North America in Las Vegas, Nevada.

ASPE 2002 Convention and Engineered Plumbing Exposition

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On a lighter note all the ASPE membership was invited out for an evening of fun, laughter, food, drinks and dancing at the world famous "Billy Bobs" Bar. It was a bar, pool hall, concert venue, gift shop, and very large game room for adults. The drinks were flowing like a Chicago based ASPE Chapter Meeting. Those guys are the best. Thanks Tim.

Another highlight of this experience was to meet some of the up and coming people throughout the United States who want to take the national positions by the horns and move us into the future with enthusiasm, energy and ideas for change and improvement. We need to keep abreast of what the national Board is doing so that when we have another election, changes can be addressed and perhaps even made by our democratic style of voting our minds.

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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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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.** "Filco"-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, **Bootz 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

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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, **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, **Capitol Mfg.**-pipe nipples, forged steel, barstock steel, stainless steel fittings, **CTS**-copper flange adapters, **Cuno**-water treatment & filtration products, **Hancor**-drainage products; commercial, residential & waste management, **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, **Studor**-venting, air admittance valves, **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

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, trap 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 lugged, 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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