

April 2004



Eastern Michigan Chapter

www.aspeemc.org

Plumbing Design Class

Date: Tuesday, April 27, 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: Architectural and Structural Interferences, Coordination and Value Engineering

Speaker: Christopher Quattrin, CPE, VMP
Barton Malow Company

Sponsors:

To be announced

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

PRESIDENT'S REPORT

**Douglas W. Cryer, CSI CPE/CPD
President**



First of all I want to apologize to any of you who had intended on taking the CPD Review Class on April 3, 2004. An Executive decision had to be made with very little time to go ahead or cancel the Review Course based on registered attendees. I realize that a few of you members wanted to take the review just to reinforce your knowledge, as well as gather a few more CEU credits towards your CPD Re-Certification process. However, even as a Chapter, we could not have had our own test site, due to Society requirements of a minimum 15 Certification candidates and we only had about seven or eight. The two locations that anyone may attend were decided last June at our Region 2 Presidents meeting. They are Rochester, NY and Columbus, OH. Both test sites are scheduled for Saturday April 24, 2004. The cancellation process is supposed to be on April 5, three weeks prior to the exam. Although you people will not be reading this article until, hopefully April 19th. Timing is everything, and our Society dropped the ball on getting the adequate and specific data to our Board to disseminate to our local membership. This is a National problem and we're going to take a stand when our next Region 2 President's Meeting is held in June 2004. Read on.

I plead to encourage all of you ticked off members to write a letter of dissatisfaction on timing, location and cost of exam directly to our National Society, specifically to Mr. Stan Wolfson. The address is as follows: American Society of Plumbing Engineers, 8614 West Catalpa Avenue, Suite 1007, Chicago, IL 60656-9007.

I still encourage all of you people striving to go beyond the normal daily challenges and test your strengths by completing and passing the CPD Exam at the ASPE Convention in October. Our timing for this test date will be decided at Eastern Michigan's Summer Strategy for next year's programming.

On a more positive note I understand that the March 23rd meeting with Mr. Robert Konyndyk, Chief of the Michigan Plumbing Codes Division, was a very popular event. Over 300 people attended! We are very pleased with

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American Society of Plumbing Engineers

Eastern Michigan Chapter 2003-04 Technical Classes

*Held monthly at the
(except where noted)*

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

September 23, 2003
Sanitary and Storm Piping

October 28, 2003
Domestic Water Distribution, Boosters,
Treatment and Sizing

November 18, 2003
Commercial Laundry and Kitchen Requirements

December 16, 2003
Domestic Hot Water Generation Design and Sizing

January 10, 2004
First Saturday Technical Review Course (8 hours)

Friday, February 20, 2004
ASPE/ASHRAE Meeting at Compuware Arena for
Snow Melting and Plumbing for the Ice Arena

February 24, 2004
Professional Plumbing Practices, Estimating
and Test Taking Skills

March 23, 2004
New Michigan Plumbing Code Review
with Mr. Robert Konyndyk

April 27, 2004
***Architectural and Structural Interferences,
Coordination and Value Engineering***

May 25, 2004
Open Microphone Night for Vendors and
BBQ @ PMC Detroit

President's Report

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this excitement throughout our plumbing community. I only wish I had not been out of town for work in Toronto to experience all the comments and concerns expressed. Some people were less than satisfied with their answers, but that only proves that we need more input from the "Industry" in writing the language of "CODES".

The ASSE Codes Development & Study program for Southeastern Michigan does just that. These dedicated individuals from all aspects of the plumbing field sit down and concentrate efforts to affect change. This change is often just to correct errata, clarify or remove ambiguous sentences from the text that becomes our law! I also encourage some of you to become seriously involved in ASSE like this or on our National ASPE Technical Standards or Data Book Committees. We need to help one another continue to evolve within our engineering societies.

Speaking of evolution, most of you have heard or been challenged with the task of "Value Engineering" your most prized designs. Cut this, remove that. Can we get this same product cheaper? Do we need that many roof drains and why is the pipe so large? "Make the fixed budget work", the architect often cries. More often than not I was at my wits end with this process. Especially after the construction documents were completed. I always expected changes, throughout project meetings and budgets are looked at following each phase of design from schematic through construction to keep budgets in range. Other factors also play roles in the assembly of any building, labor rates, material costs or yes, the weather, cold and rain.

Our next meeting on April 27, 2004 will offer the contractor, designer and engineer with some knowledge about how a construction management company can assist in helping the engineer, architect, owner and sub-contractors on track to maintain the utmost in quality for the owner, design intent from the architect and engineering point of view and help contractor's stay on time, with proper scheduling.

I was introduced to our April speaker at the February meeting of the Detroit Chapter of the Construction Specifications Institute (CSI) of America, of which I became a member when I became more heavily involved with writing specifications and maintaining them for Sellinger Associates, Inc.

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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

Wes Patton
VP Technical

Spring has finally made it! At least that is what the calendar shows, but remember this is Michigan and we all know how the weather works. March brought us not only robins but a new code and it was introduced by the Director of the Michigan State Plumbing Board, Mr. Robert Konyndyk. The rollout was received by over 300 plumbing professionals and what a sight it was to behold. The entire program lasted over 6 hours and I'm sure another 6 hour was in order but at a later date. The code in Michigan gets reviewed constantly but it takes years to bring the changes and improvements to the public for implementation so hats off to the code folks. The 2003 MPC is welcomed and maybe with a few groans but it's here.

We regret that we had to cancel our CPD review course. Only a hand full of persons were planning on taking the CPD exam this April. The cost of the exam has really jumped and this is the most likely reason for the lack of interest in taking the test. It impacted the persons needed to take the chapter's traditional review course and with so few requesting the course, the decision was made to postpone and re-schedule the review until this fall when the test will be offered in Cleveland at the National Convention. Cleveland is a much shorter drive than Chicago or Columbus test sites. So hold tight, the tradition is still alive just moved to a later date to be announced. We may even offer you a ride to Cleveland.

Our next meeting on April 27, 2004 will offer the contractor, designer and engineer with some knowledge about how a construction management company can assist in helping the engineer, architect, owner and sub-contractors stay on track to maintain the utmost in quality for the owner, design intent from the architect and engineering point of view and help contractors stay on time, with proper scheduling.

Christopher Quattrin, CPE, VMP is the Manager of Cost Engineering at Barton-Malow Company. Chris has been at B-M for three years and has much experience in meeting with

all the important parties on a project, to define owner needs, cost limitations and qualify as many "Alternatives" to each need that can be considered. Chris is one experienced fellow and his credentials speak for themselves. He has a Bachelors of Science in Mathematics and a Masters of Science in Structural/Civil Engineering. He also holds a Master of Science in Business from Nazareth College in Kalamazoo. He is a Certified Professional Estimator and holds a Value Methodology Practitioner certificate. He is serving the final stages of his internship towards a CVS(Certified Value Specialist). Once completed he will be one of two holding such a title in Michigan. Chris has worked for Smith Group and the K-mart Corporation doing what he does best -value engineering. His experience working with engineers and architects in the beginning of many projects has been instrumental in giving the owner what they expect and keep in their budget and never compromising value. Let's make him welcome.

As engineers, we cannot be closed-minded to alternatives that accomplish the owner's needs without compromising functionality and performance. It really is a TEAM Thing. Speaking of Team approaches, many of our other Chapters throughout the United States have opinions that will be discussed as a team on what needs to happen with our National Society and their potential future agenda that includes a raise in our dues that already are maxed out! Your input on these matters can come to the forefront by getting involved as a board member. May is election month and could put you on the board should you place your name on the ballot. If you are interested, give Joe Hernandez a call at 248.643.6222.

Our final meeting for the season will be May 25, and it will be unique because it is "Open Mic Night", and can you say BBQ? All our sponsors will be given time to toot their horn so to speak on what ever they like. Jokes? you got jokes, no problem. This is an open mic and any member can take the mic. (We'll have to keep Joe from the mike, he only knows one joke about the skeleton...) Our sponsors, whether table top or newsletter, keep us informed on as much as they can but I'm sure a little pat on the back would help and this is our way of saying thank you. So as they say in Las Vegas, "Gimme the Mic" and let it roll.

*Mark your calendars for
May 25, 2004
Open Microphone Night for
Vendors
and
BBQ @ PMC Detroit*

May

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		26	27	28	29
30	31					

President's Report

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Christopher Quattrine, CPE, VMP is the manager of Cost Engineering at Barton-Malow Company. Chris has been at B-M for three years and has much experience in meeting with all the important parties on a project, to define owner needs, cost limitations and qualify as many "alternatives" to each need that can be considered. His experience working with engineers and architects in the beginning of many projects has been instrumental in giving the owner what they expect and keep in their budget. As engineers, we cannot be closed-minded to alternatives that accomplish the owner's needs without compromising functionality and performance. It really is a TEAM thing. Refer to Wes Patton's VP Technical Report, in this issue, on further meeting information.

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annarborfp@aol.com

Speaking of Team approaches, many of our other Chapters throughout the United States have opinions that will be discussed as a team on what needs to happen with our National Society and their potential future agenda that includes a raise in our dues that already are maxed out! For more on this breaking news and other qualms, please read my Editorial Comments article in this newsletter.

See you on April 27, 2004. Bring an open mind and some ideas that you may have to offer to our discussion.

Remember, we also are having the Silent Auction for the Stainless Steel Sink, Faucet and Shower Head. Please sign your name at the April meeting and the winning bid will be announced at the May meeting.

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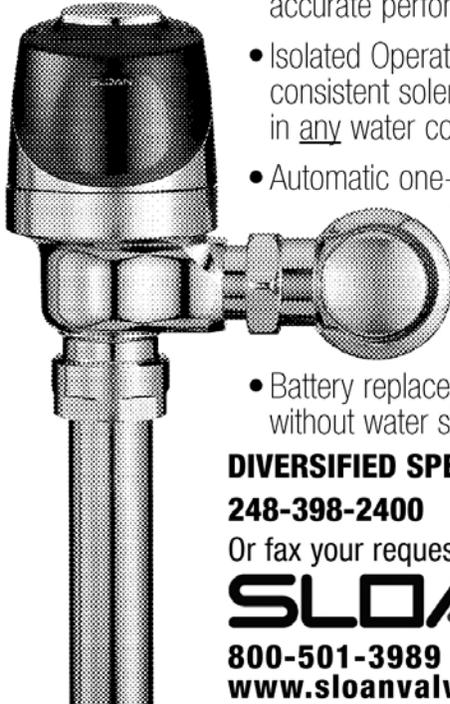
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Professor Plumber sez...

**Bill Grayzar, CPD
VP Education**

CIPE Review Course

I sincerely apologize to those ASPE members who were planning to take the CIPE Review course on April 3rd, 2004. It is my understanding that due to the limited interest the review course was cancelled. If the chapter members show enough interest, the board may review the possibility of offering another review course in the fall prior to Cleveland convention exam date.

CIPE/CPD Review books are still available through PHI for a limited time.

I am in total agreement with our chapter president when it comes to discussing the costs associated with obtaining a CIPE or CPD certification. In my own opinion, the National Society is making the desire to be certified costs prohibitive. I have only been associated with our board for the last two years so I do not know what the driving force is behind the costs of the exam. However, I intend to review, investigate and address this issue at the convention in Cleveland this fall.

Cleveland Convention

Members interested in going to the convention in Cleveland this fall please make yourselves heard. Please voice your opinions and comments to the Eastern Michigan Chapter Board so we can correctly and knowledgeably voice the majority opinions of our members to the National Society. Also, please voice to the board members of the Eastern Michigan chapter any interest you may have in attending the Cleveland convention so a determination can be made as to the practicality of chartering bus transportation for our members to and from the convention.

Sample Questions

The following is just a few questions for those members who have been preparing for the CIPE/CPD exam.

See if you can answer or find the answer to the following questions?

What is the neutral PH level for water?

- A. 4
- B. 7
- C. 8
- D. 10

If the building sewer and water service lines are allowed to be installed in the same trench, which of the following statements is true?

- A. The water line must be encased in a protective conduit.
- B. The water line must be located below the sanitary line.
- C. The water line must be located above the sanitary line.
- D. The lines must be separated by 5 feet.

A red identification stripe on copper piping indicates the pipe is type:

- A. K
- B. L
- C. M
- D. DWV

When checking the size of a water distribution system, all of the following should be considered except:

- A. Number and type of fixtures.
- B. Initial water pressure.
- C. Static and friction head loss requirements.
- D. Alkalinity of the water.

In the design of a compressed air system the term "free air" means which of the following:

- A. Air at standard conditions at the compressor inlet.
- B. Air at the compressor discharge.
- C. The volume of air displaced by the pump pistons.
- D. The volume of air discharging at the furthest outlet.

Good luck with the questions look for the answers in next month's newsletter.

Bill



In My Opinion...

by Douglas W. Cryer, CSI CIPE/CPD

Recently, the Cleveland Chapter President sent me a letter regarding the need for cash, sponsor trinkets to fill a duffel bag similar to the one offered at Ft. Worth a couple of years ago and manpower to welcome people at hotels, staff hospitality areas (Spouse interaction) and serve as a monitor for seminars at desks, that you may be attending anyway. Consider the volunteerism. Let me know if you feel the desire to help serve.

Also, if you plan on attending the Convention, then please plan on staying for a few days and nights. Downtown Cleveland offers many hotels, restaurants, sport facilities (Tribe and Browns during October), Rock & Roll Hall of Fame for all you 60's Generation, the Phantom of the Opera will be in the "Theatre District" during that week (my cousin is in play, should anyone be interested in attending, just let me know, I'll probably take a group). The Eastern and Western Michigan Chapters are collaborating on getting bus transportation packages to accommodate as many attending as possible. We need your input though. Please e-mail me with a response soon. Input is key to flexibility of consigning transportation. We would like to have the main issues for this adventure complete by September. Consider bringing your spouses for the "Party Busses" to Cleveland.

Another issue with our current Board of Director's is the cost of the CPD Exam and what benefit is actually given to the Plumbing Designer Certification status. The cost is not congruent with the status afforded the individual passing a very grueling and intense exam. I am not here to take away from the knowledge required to pass this exam, but am angry with our National Society at setting the cost at \$450 for members and \$625 for non-members. Frankly, in my opinion the cost is very prohibitive to our membership for the long-term benefits. This is just outlandish, when the PE Exam is only \$200 or so. Everyone knows that having your Professional Engineering Registration (P.E.) number allows you to sign and seal construction documents and carry the appropriate liability insurance to CYA!

We at the Eastern Michigan Chapter are going to take a stand at the Region 2 President's Meeting, bringing this up as "New Business". Again, what do you think?

Finally, and probably the most important issue at hand, is how we as the Eastern Michigan Chapter specifically and state by state chapters in general are going to handle the National Society deficit of somewhere around \$1,000,000. If this were a corporation, we would be laying off people

and cutting costs or filing for bankruptcy. I said this is only my opinion, but allow me to share some serious talk from our neighbors in Chicago and their President's feelings.

Following a notice of having a proposed \$10 increase in next years membership dues, Robert Jackson of the Chicago Chapter issued a general statement to ALL Chapter President's across the United States. I'll paraphrase some of his opening but give you his exact text in italics, as well.

Robert's concern originates from a 46% increase in dues over the last five years. He continues, "While the setting of dues is at the discretion of the Society Board, I feel that the reasoning for the proposed increase in next year's dues is not sound. The Society has once again operated at a budget deficit, leaving the Society Treasury in a bigger hole than they were two years ago".

As I mentioned the \$1,000,000 debt, Robert concedes, "Society is rightly upset about this debt and has plans to aggressively reduce spending in order to pay off the debt in 3-4 years. Part of this plan is the dues increase".

I am asking the Eastern Michigan Chapter to also protest this dues increase along with the Chicago Chapter. I urge the membership at large to send another letter to the National Society President to indicate your dissatisfaction with this proposed increase. I would also like to know your thoughts, so I can share them at our Region 2 Presidents Meeting in June and bring this up as another issue of new business.

Our Chapter leads the nation in education and the model chapter for such. We don't give the most money or have the largest membership roster, but we can have a national impact on what Society does with our money.

If I ran my banking account like the Society, then I would be in trouble with creditors and my wife. We can act like the "wife" in this relationship with National by asking for accountability, common sense, some sacrifice and financial guidance leadership. I'm sure all of you readers have some comments on how you personally save money to make ends meet and still save.

I challenge all of you to submit practical solutions that I can compile for the June meetings with the National Board Members.

Thank you all, for allowing me to vent and comment on the sorry state of "Our National Society".

Robert Konyndyk Introduces the New Michigan Plumbing Code in Southeastern Michigan

John R. Nussbaum PP, FASSE

The New Michigan Plumbing Codes were introduced to 312 attendees at St. John's Conference Center on March 23, 2004. This location was selected because of being conveniently and centrally located and able to hold the anticipated large number of attendees expected. An added convincing factor was the large stage, huge screen and adequate sound system. The promised Italian Buffet Dinner helped in the decision making process.

The Plumbing & Mechanical Contractors of Detroit, Eastern Michigan Chapter of the American Society of Plumbing Engineers and the Michigan Chapter of the American Society of Sanitary Engineering teamed with the areas local manufacturers representatives in southeastern Michigan to make this code study meeting a record breaking event topping the year 2000 meeting record of just over 155 attendees.

The Chief of the Plumbing Division, Robert Konyndyk, was extremely pleased with the venue and co-operation of their staff as well as the pre-planning of the event as stated to J. Nussbaum. The meeting was planned for a 2:00 pm - 9:30 pm with a half hour set aside for dinner, allowing for 5 hours of accredited training. Those attending pre-registered with payment in advance of the meeting to allow for easy check-in at the event. Stacey Birkenhauer, Mary Chapman and Chris Freeman were extremely helpful to John Nussbaum in the administrative end of putting this event on. The ASPE Legislative V.P., Ron George, presented framed ASPE certificates of gratitude to them and Robert Konyndyk. He also thanked the manufacturers representatives for their participation. The Code Study & Development Group of Southeastern Michigan sold over 400 Michigan Plumbing Code Books prior to the meeting. Those still in need of Michigan Plumbing, Mechanical and Residential Code books may obtain them by calling John Nussbaum at (313) 341-7661. This also applies to those wanting the International Fuel Gas Code. International Plumbing, Mechanical and Fuel Gas Commentary's are also available by placing an order with John Nussbaum.

Highlights of the meeting:

Chapter 1 Administrative:

Section 101.1: Applicable to the State of Michigan.

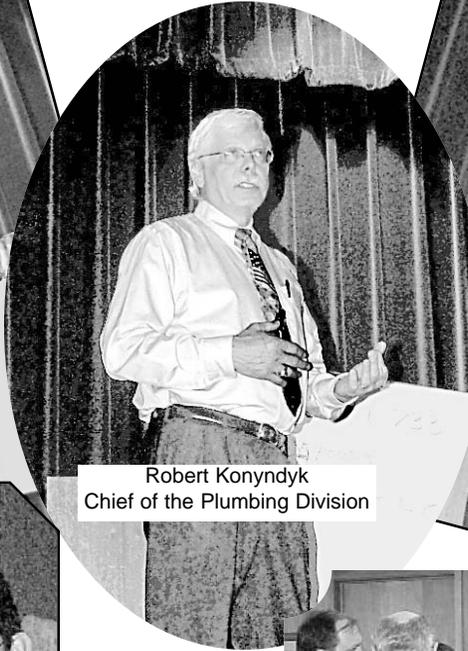
Section 101.2: Scope covering the design and installation of plumbing systems including storm drainage, sanitary facilities, medical gas systems, water supplies, storm water and sewage disposal in buildings. **Exception: Plumbing facilities within one (1) and two (2) family dwellings shall be in accordance with the Michigan Residential Code for 1 & 2 family dwellings.**

Note: A double vertical lines in the margin denote amendments and additions promulgated by the State of Michigan Department of Consumer and Industry Services, modifying the 2003 International Plumbing Code. An * asterisk in the margin identifies sections of the 2003 International Plumbing Code not adopted by the State of Michigan. Vertical solid lines in the margin indicate plumbing code language changes that differ from the 2000 International Plumbing Code. These couple of items are your important guide to helping you recognize the changes you will find in the new Michigan Plumbing and Mechanical Codes.

Another highlight of the meeting was the 18 minute DVD presentation showing the history and procedures used to develop ASSE Product and Professional Qualification Standards used through out the plumbing industry. Bob Konyndyk spoke of the importance of these standards in his presentation to the fact that the national codes reference these standards in the model plumbing codes.

Licensed Master and Journey Plumbers are required to obtain 5 hours of continued education prior to April of 2005 if they wish to renew their license. Those licensed individuals who attended the aforementioned presentation received a certificate certifying their attendance signed by Robert Konyndyk. They were also advised to mail them to the Plumbing Bureau within 10 days to be validated and filed, so when they return their renewal application, accompanied by the appropriate fee, there will be no delay in processing their license application and issuance of their license.

Manufacturers representatives who displayed their products, V.E. Sales Tom Van Egmond & Cindy Zatto, Burke Agency Brian Burke & Tom Zimmerman, TRO Sales Tom Osberger, Flow Guard Paul Candela & Charley Swindell, Sales Service Plus Kirby Meager, DeBroka & Associates Dennis DeBroka & Mike Kovacs, K.L. McCoy John Hux & Larry Keelan, American Standard Mark Duford, Kohler Company Pat Baker, Balfrey & Johnston George Johnston, Diversified Spec. Sales Mike Burdette.



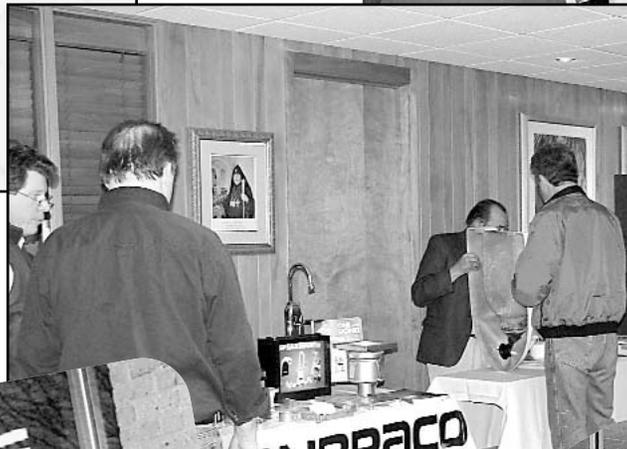
Robert Konyndyk
Chief of the Plumbing Division



Ron Olsey and Joe Hernandez of SSOE



George Johnston of Balfrey-Johnston



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Tom Zimmerman of Burke Agency

Thank you to the sponsors!

A great big "Thank You" to the sponsors who were present at the March 23 meeting:

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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, **Metcraft** - institutional & commercial stainless steel plumbing fixtures, **Olsonite Toilet Seats** - toilet seats, **Oasis Corporation** - 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

ITT-AC-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 turbines, **Voelsang**-positive displacement, **Metropolitan**-pump control system, variable speed pump pkgs & heat transfer pkgs, **Pump/Con**-control panels/level control equipment, **Sensaphone**-alarm dialers, **Multirode**-level monitoring & control systems, **Dezurik**-plug, butterfly, knife gate, V-port & control valves, pneumatic double acting, spring return & diaphragm actuators, **Copes Vulcan**-severe duty globe control valves, desuperheaters, turbine bypass systems, special application control valves, **In-line**-stainless steel ball valves, **Cla-val**-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, **Shaw**-insulated & non-insulated pipe support systems for all piping from -425F to +1800F, **Adamson**-storage, hydropneumatic, expansion, boiler blowoff tanks, **Topp**-fiberglass basins, **Hilliard Corp.** "Hilco"-oil filters, oil reclaimers, **Proco**-flexible connectors, **Thunderline**-link seals & wall sleeves, **Cook Legacy**-coatings to prevent Zebra Mussel build up, **Magnadrive**-magnetic couplings/VFD's, **Baysaver**-stormwater separation

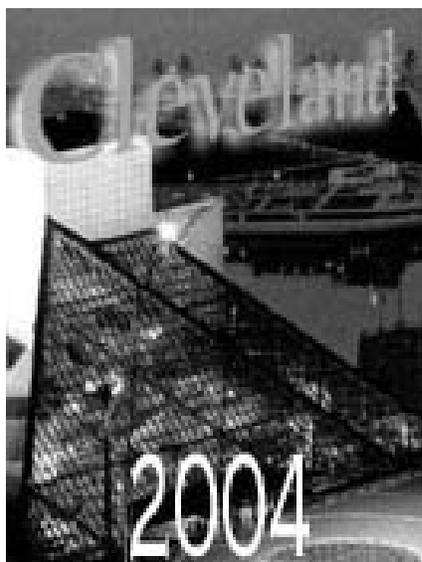
Lochinvar - High efficiency water heaters, boilers, pool heaters, booster heaters & storage tanks.

Board of Directors Nominations 2004-2005

We are still accepting names of those who wish to run for positions on the ASPE Eastern Michigan Chapter Board of Directors. A final list of the candidates along with a short biography of each will be published in the May newsletter. If you are interested in running for an office, you may contact any current board member, or e-mail your intentions to info@aspeemc.org.

ASPE 2004 Convention & Engineered Plumbing Exposition

October 23 - October 27, 2004
Cleveland Convention Center
Cleveland, Ohio



Toilets of the World

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This site has pictures of ancient toilets dating from pre-biblical times to the different types of toilets in use today.



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ABS Pumps-sump & sewage pumps & systems, **American Water Heater** - commercial tank type water heaters, **Conbraco**-plumbing & heating products, backflow prevention devices, **DWV Foundry**-cast iron soil pipe, fittings, full port valves, **Ecodyne**-commercial and industrial water treatment, R.O. systems, D.I. water PVC drains & cleanouts, **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, **Griffin Products**-stainless steel sinks & fixtures, **H.B. Smith** -commercial cast iron steam & hot water boilers, **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, **Mepco**-steam specialties, condensate & vacuum pumps, traps, **Mifab**-roof & floor drains, cleanouts, carriers, interceptors, access doors, trap primers, hydrants, **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-pex, **Space Pak**-air conditioning systems, **Thermex**-point of use electric water heaters, **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

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Mary Anderson
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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, **Dwyer Kitchens** - compact kitchens, **Halsey Taylor** - electric water coolers & drinking fountains, **Leonard** - shower & water mixing valves, thermostatic & pressure balanced, **McGuire**-brass fittings, **Santana** - toilet & shower compartments , **Truebro** - trap & supply covers

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 - 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-Steem**-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, **Campbell Mfg.**-water system & filtration products, **CTS**-copper flange adapters, **Flint & Walling**-well pumps, jet pumps, water conditioning, **Laco Industries**-fluxes, sealants, penetrants, caulk, putty, **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**-waterless urinals, **Zoeller Pump Co.**-sump, sewage & wastewater pumps & accessories

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, **Green Mfg. Inc.**-loading racks & stairs, **Hayward Industrial Products**-plastic pvc, cpvc valves, basket strainers, filters, pneumatic & electric actuators & solenoid valves, **Webster Pumps** -immersible & centrifugal pumps, **Insul-Tek**-preinsulated piping systems, **Homestead**-plug valves, **Mission Rubber Co.**-“heavyweight” no hub couplings, **Noble Co.**-anti-freeze non-toxic, CPE 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 - ball valves, butterfly valves, pneumatic & electric actuators, thermostatic mixing valves, pipeline strainers, **Colonial**-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 & heating products, **IPS**-plastic pipe cement, primers and cleaners, test plugs, **Lasco**-Sch 40 & Sch 80 PVC & CPVC and PVC DWV fittings, **Murray**-hose clamps, **Oil Creek**-polyethylene piping systems, **Safe-T-Cover**-freeze & vandal protective enclosures for backflow preventers, **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-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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