

May 2004



Plumbing Design Class

Date: Tuesday, May 25, 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: Open Microphone Night for Vendors and BBQ @ PMC Detroit

Speakers: Open

Sponsors:
To be announced

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

PRESIDENT'S REPORT

Douglas W. Cryer, CSI CIPE/CPD President



First, I want to take this time to thank the 312 people from inspectors, engineers, manufacturer representatives (our sponsors) and contractor's who attended the March meeting with Mr. Robert Konyndyk. I am sorry I missed the discussion.

Speaking of that night's discussion I want to make a clarification to all the readers of this newsletter about the statement I made in last months President's column. I wrote: "...some people were less than satisfied with their answers". I really had no idea who would read this one sentence and how it would be interpreted. Because of such a statement Mr. Konyndyk called me on the telephone, himself. This arose his concern. He wanted to know what negatives were expressed to me and how he might change the presentation. He and his colleagues took an eight-hour presentation and condensed it down to around five hours to keep the meeting moving and still be informative about the changes in the new Michigan Plumbing Code. Here is where the public apology to Mr. Konyndyk starts. Under a tight deadline for my article, I made an assumption that you cannot please all the people, all the time and thus included the aforementioned sentence. However, during our April Board Meeting I was informed that the majority of the attendees liked and were satisfied with the presentation given and that the few people who made negative remarks, either do not know the Code, do not practice or agree with the Code or just want to complain about something. I should have spoken with more people about their feelings regarding that March meeting, but as I said I had a deadline and very little input from attendees. This proves the statement that when you assume you make an...(you know the rest). To that end, I need to apologize personally to Mr. Robert Konyndyk and let him know he did good for our ASPE Chapter and hope that I have not alienated him from speaking to our chapter for future Code updates.

This past April meeting for Value Engineering was not as well attended as I had hoped. It could have been that the weather was nice, family obligations, that we peaked interest for our March meeting or that our previous technical sessions were geared towards taking the CPD Exam and that

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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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deadline had passed. Although, to our chapter's credit we were prepared to offer the pre-test course, but the National Society did not provide us with the course material in a timely manner and the deadlines for payment and refunds for the National CPD Exam were not in line with the date we received the study information. Shame on Society for making this processes such a hassle.

Back to our last meeting, Mr. Christopher Quattrine, CPE, VMP, Manager of Cost Engineering at Barton-Malow Company, did a good job of explaining a specialized way to design a project by determining what the owner's needs are with the initial involvement of architects, mechanical, electrical, structural, civil engineers and construction managers, incorporating a TEAM approach to the design and construction process. If there was anything to be gleaned from Chris' presentation, it was that projects CAN be built to everyone's satisfaction with some conciliations from the parties involved to fall within the limitations of an owner's budget.

Our May meeting will be an "Open Mic Night" for all of our past tabletop sponsors to highlight a couple of their product lines, new additions, tell a joke or just get their faces in front of our chapter members to get some notoriety. We will also have our chapter's Board of Director positions nominating, voting and installation for next year.

Remember May 25th for Ginny's burgers and dogs, socializing and re-paying our yearly sponsors with your attendance and gratification.

In addition, our yearlong silent auction may turn into a regular auction to rid the PMC storage room of the donated items. I noticed that there aren't many names on the lists so these items will go for very cheap prices. Bring cash or your check-book.

Douglas W. Cryer

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
Vice President Technical



*Christopher Quattrin, CPE, VMP, Barton Malow Company
Speaker at the April meeting*

The Eastern Michigan chapter has had a very exciting year of interesting programming under the direction of chapter president, Mr. Doug Cryer, and next year we will be providing more.

In recapping the year's events, many topics were discussed giving the membership an opportunity to interject on subject matter with colleagues and professionals of the fields.

The month of September offered a session on Sanitary and Storm piping, October Domestic water distribution, November Commercial

Laundry and Kitchen, December Domestic Hot Water Generation design and sizing, February joint family night meeting with ASHRAE at Compuware Arena and also during February test taking skills, March Michigan state code

review, April Value Engineering and the last meeting for year coming up will be on May 25, 2004 with many vendors giving a short presentation for the night. We regret to say that some of the planned sessions had to be cancelled for bad weather and other reasons beyond our control.

Please feel free to e-mail me at wpatton@ssoe.com to offer any suggestion on topics that you would like to see discussed next year. It is important to get your comments as we begin the planning stage for next year's program agenda.

I would like to thank all the professionals for their expertise that they demonstrated during every session. These professionals used their knowledge and experience to teach our membership. Also, I would like to thank the membership for their attendance to this year's meeting.

We wish all of the membership a great summer and we will look forward to seeing you in September.

VP LEGISLATIVE

Ron George, CIPE/CPD
Vice President Legislative

I attended the State Plumbing Board meeting this week but there was not a quorum present. The board members present carried on the regular business and recorded the outcome for approval by the full board at their next meeting.

After the State plumbing Board meeting, I attended the MPMCA Plumbing Show and was a little disappointed to see very few engineers from S.E. Michigan. I propose that Eastern Michigan chapter appoint a chairman for next year's show to head up volunteers to man the ASPE Booth that was unattended this year at the show.

So far at the UPC hearings, ASPE has been very successful with their code changes. There are some pretty controversial ones coming up, so we will see how they fare. Julius Ballanco and Dick Wagner have done a good job presenting the code changes on ASPE's behalf.



Newsletter Update

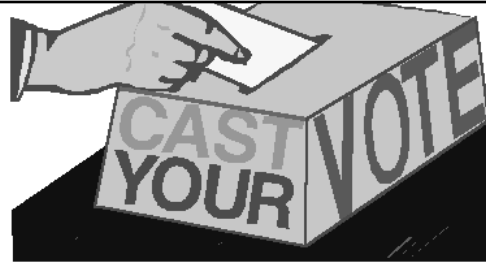
Joe Hernandez, CIPE
Newsletter Editor

The Eastern Michigan Chapter is planning on going paperless next year. You will receive a monthly e-mail notifying you that the newsletter is available online and it will include a link to the newsletter in Adobe reader format.

It is very important that we have your e-mail address. Please send your e-mail address to info@aspeemc.org.

Also, if you know of anyone else who would like to be on our mailing list, please include their e-mail address.

The newsletter will still be available on the web site.



Board of Directors 2004-2005

The annual election for the Eastern Michigan Chapter ASPE Board of Directors will be held on May 25, 2004 at the May general meeting. The voting will take place prior to the meeting/class. Below is a sample ballot with the names of the candidates.

President:

- Esteban Cabello, PE, CIPE

Vice President Technical:

- Wes Patton

Vice President Legislative:

- Ron George, CIPE

Administrative Secretary:

- John Nussbaum, FASSE, IPP

Vice President Education:

- William Grayzar, CPD

Vice President Membership:

- Ross Beck

Treasurer:

- George Dobrowitsky

Corresponding Secretary:

- George Johnston, Jr.

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Professor Plumber sez...

**Bill Grayzar, CPD
VP Education**

CIPE/CPD

The Eastern Michigan chapter of ASPE has decided to prepare a CIPE/CPD review course for our members to be held this fall prior to the Cleveland Convention for those interested. Watch for more information for the review course date and time in the summer newsletter.

CIPE/CPD Review books are still available through PHI, but only for a limited time. All review books not purchased by June 2004 will be returned to the National Society.

Also, for those members are currently CIPE/CPD registered remember that your Recertification Form with payment is due to the National Society by June 1st, 2004.

Testing of Drainage, Waste and Vent (DWV) systems

If you are taking the CIPE/CPD exam, you may be required to understand and know how piping systems are tested. The following describes basic testing methods for Drainage, Waste and Vent piping systems.

The storm and sanitary system must be subjected to a water test and proven watertight upon completion of the rough piping installation and prior to covering or concealment. The test pressure should be a minimum of 10 ft. of water column (wc), except for the top most 10 ft of pipe. The test pressure should never exceed a maximum of 100 ft wc. Any greater pressure will cause the piping to deform and blow and blow the test plugs used to seal the temporarily open piping in the system. If the system is higher than 100 ft, test tees may be installed at appropriate heights to test the building in sections. In practice, very rarely are more than seven stories tested at one time.

If it is not possible to perform a water test, an air test is acceptable and is performed at a pressure of 5 psi. Air tests are very impractical and usually very costly.

Upon completion of the Sanitary system and after all fixtures are installed with traps filled with water, the system should be subjected to an additional test and proved gas tight. A smoke pressure test is recommended. The smoke test is performed by introducing pungent, thick smoke produced by smoke bombs or smoke machines. When smoke appears at the roof terminals, each terminal is sealed and smoke pressure on 1 inch wc is maintained to prove the system gas tight.

An alternate test is the peppermint vapor test. At least 2 oz of oil of peppermint are introduced into each roof terminal and vaporized by immediately pouring 10 quarts of boiling water down the stack. The terminals are promptly sealed. Oil of peppermint and any person coming in contact or handling the oil must be excluded from the interior of the building for the duration of the test. Leakages are detected by the peppermint odor at the source. However, it is very difficult to pinpoint the leak by this method.

Answers to Last Month's Sample Questions

What is the neutral PH level for water?

C. 8

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

C. The water line must be located above the sanitary line.

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

C. M

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

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.

Have a wonderful summer and I look forward to seeing all of you again in the fall.

Bill



John E. Matthews,
PE, CIPE, FASSE

December 31, 1925

May 2, 2004

Never to be forgotten John E Matthews a plumbers, plumbing engineer. That is how I will remember my friend and colleague for over 26 years. The plumbing industry has lost a most energetic and dedicated individual to its cause of protecting public health and safety through better plumbing.

John Matthews was a man who led by example that is what made him stand out as a leader in his chosen profession and career choices, which included the presidency of two local chapters of their national organizations the American Society of Plumbing Engineers (ASPE) and the American Society of Sanitary Engineering (ASSE). John was elected to the national board of directors of ASPE as the VP of Membership, while serving in that position he was instrumental in starting the Western Michigan Chapter of ASPE. John was also a charter member and one of the founders of the Eastern Michigan Chapter 29 years ago. John was an active member of the American Society of Sanitary Engineering at the national level. Serving on the Seal Control Board and as their Bylaws Chairperson for several years. His friendly demeanor made him a good negotiator and often helped him win people over to what he thought was best for the plumbing industry in protecting public health and safety. The Michigan Chapter of ASSE created an award in John Matthews name 4 years ago to be presented to the engineer whom fits the ideals and high standards set by John Matthews. The award is presented annually at the ASSE Awards Dinner. The ASPE Eastern Michigan Chapter selects the candidate to receive the award.

After the passing of his devoted wife and confidante of many years he was quick to accept the many commit-

tee positions offered, one of the most important committees John took a lead role in is the Code Study & Development Group of Southeastern Michigan formerly begun in 1981 by John Nussbaum then Executive Director of PHCCASM. This Committee today is a consensus committee made up of a cross section of the plumbing community including contractors, inspectors, manufacturers representatives, journey plumbers and plumbing design professionals. John Matthews was the spokes person for this committee at the public code development hearings presenting testimony to the International Plumbing Code Committee. John had served a term on the Building Officials Code Administrators Plumbing Code Committee in the 1980s. His experience and knowledge of plumbing design, engineering and the plumbing code made him a highly respected leader within the plumbing industry and among his peers. John also was a member of the State of Michigan Plumbing Code Committee. John was the first recipient of ASSE's Patrick J. Higgins Award, given to the individual who contributed his time and efforts unselfishly to the code development process locally and nationally. Patrick Higgins (plumbing industry consultant) was a good friend of John Matthews through out the years.

John Matthews spent many a day and hours with me at PMC Detroit writing and or proof reading plumbing related articles, bylaws, historical documents along with planning of educational programs and events designed to help and improve the plumbing industry. John Matthews will be missed but never forgotten.

J.Nussbaum PPFASSE

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Febco - backflow prevention assemblies, **Hot Box** - insulated valve & meter enclosures, **Mr. Steam** - residential & commercial steamroom generators, saunas, **NDS** - exterior drainage & landscape products, valve & meter boxes, channel drain, flexible couplings & saddles, equipment pads, tree grates, grass pavers, root barriers, drip & micro irrigation, **Plumberex-ADA Handy Shield™** trap & supply safety covers, **Sioux Chief** - commercial drainage products, roof drains, water hammer arresters, commercial hangers & brackets, trap primers, preformed copper, plumbing specialties, **Spears Mfg. Co.** - PVC/CPVC fittings, DWV fittings, ball, lab, check, diaphragm, butterfly valves, CTS fittings & valves, irrigation specialties, fabricated fittings, CPVC fire sprinkler fittings, actuation, dual-containment, CPVC lab waste systems, LXT ultra-pure water systems, PVC compression fittings, PVC saddles, **Toilet Partitions**

Argo Industries-baseboard heat, zoning controls, pump relays, **Burnham**-boilers, baseboard heat, indirect water heaters, radiators, **COZY**-wall furnaces, **Delavan**-oil metering devices/nozzles, **Effikal**-barometric & vent dampers, **Grundfos Pumps**-multi-stage centrifugal, sump, circulators, booster pumps, end suction, variable speed pumps, **Honeywell/Sparco/Braukmann**-dual certified anti-scald mixing valves, expansion tanks, air eliminators, backflow preventers, high-low temperature controls, check valves, micro bubble eliminators, **J & J Register**-grilles & registers, **Rinnai**-continuous water heaters, **Tekmar**-boiler & snow-melting controls, **Tjernlund**-power venters, draft inducers, fresh air & combustion air products, variable speed auto-draft solutions, **Triangle Tube**-stainless steel indirect fired water heaters, combination indirect/direct water heaters for space heating & domestic water, brazed plate heat exchangers, **Unico**-mini-duct high velocity air conditioning systems, spot cooling, **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

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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

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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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