

September 2004



Eastern Michigan Chapter
www.aspeemc.org

Plumbing Design Class

Date: Tuesday, Sept 14, 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: Plumbing Law Suits

Speaker: Tom Wuri

Sponsors:
To be announced

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

PRESIDENT'S REPORT

**Esteban Cabello, PE, CIPE
President**



I would like to welcome everyone back from a cool summer as we begin a new year with ASPE. Let me first congratulate the election of our new board, I am sure they will contribute to the quality programs that our chapter brings to you. Our new board is as follows:

- | | |
|-------------------|----------------------------|
| VP Technical | Wes Patton |
| VP Education | William Grayzar, CPD, CIPE |
| VP Legislative | Ron George, CPD, CIPE |
| VP Membership | Brett Young |
| Treasurer | Doug Cryer, CPD, CIPE |
| Admin. Secretary | John Nussbaum, FASSE |
| Corres. Secretary | George Johnston II |

On September 14 we will be starting our first membership meeting of the year. As in the past, we try to bring educational topics to our membership. This year is no different. To kick-off our year, we are bringing in an attorney to discuss the topic of litigation in the plumbing industry. This meeting should be of interest to engineers, designers, inspectors, contractors, and manufacturer's representatives.

This year is also convention year. The ASPE convention will take place in Cleveland, OH on October 23 - 27. I encourage you to attend. The CIPE/CPD exam will also take place there. If you have an interest in participating in some way in ASPE, please contact me. There are a number of committees that need volunteers and help, and it is a great way to meet new people and network in your industry. I look forward to seeing you at our next meeting,

Your President,

Esteban

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American Society of Plumbing Engineers

Eastern Michigan Chapter 2004-05 Technical Classes

*Held monthly at the
(except where noted)
PMC of Detroit
14801 West 8 Mile Road
Detroit, MI 48235*

***September 14, 2004
Plumbing Law Suits***

October 19, 2004
Gas Piping Design

November 16, 2004
Piping Expansion and Seismic Control

December 14, 2004
Single Stack Drainage Design

January 25, 2005
Software For Plumbing Design

February 15, 2005
Plumbing Specialities (trap primer, water arrestor)

March 22, 2005
Replacement Standards For ASSE 1016 & 1017

April 26, 2005
Medical Gases

May 24, 2005
To be announced

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



Newsletter Update

**Joe Hernandez, CIPE
Newsletter Editor**

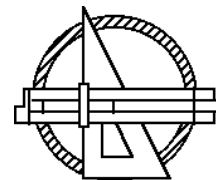
The Eastern Michigan Chapter is still planning on going paperless, but we need your help! We only have a portion of the e-mail addresses necessary to facilitate this. You would receive a monthly e-mail notifying you that the newsletter is available online and it would include a link to the newsletter 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.

Don't be left out!

Eastern Michigan



***It's your
chapter - get involved!***

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

Welcome back to our 2004-2005 Technical Season. I hope everyone is having a fun summer vacation break. The Region II meeting in June was a success with a lot of focus on the October convection to be held in Cleveland, Ohio this year.

Next year's class schedule will be packed with very informative topics that were established during the board planning meetings. This season's plans are for classes to be instructed by professional experts in their field as normal, but with interesting topics. The topics

will cover plumbing law suits, piping expansion, plumbing design software and medical gases just to name a few. The Saturday meeting this year will feature the CPD exam review, code review and hot water hydronics. Also this year, look for special events like the "Night at the Races" and a golf outing.

So, adjust your calendars for the 2004-2005 ASPE classes. We are asking the membership to e-mail me no later than the Friday prior to each meeting to confirm your attendance for a exact head count for the caterer. Meals are free to all members who pre-register, therefore pre-register avoid additional fees. I hope this will not deter anyone from attending, because the purpose of this policy is to maintain chapter accounting and minimize waste.

See you in the fall.

2004 ASPE

Convention & Engineered Plumbing Exposition

October 23-27

Over 3 football fields of exhibits

Over 300 manufacturers, suppliers and consultants with technical exhibits

New Products Showcase with over 50 displays

Earn CEUs

Complimentary lunch and snacks on the exposition floor

"How Fast Can It Go?" contest

Over 50 technical programs

Prize drawings including laptop computers and the Grand Prize pickup truck

CIPE exam

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



Wear It and Win!

Have we got your number? Wear our ASPE 40th Anniversary

Pin when you check in at the Convention registration and we'll check the serial number on the back of the pin. If you have one of the 500 winning number pins that have been sent to the chapters for distribution - YOU WIN!

What's the Catch?

Actually, there is none. Just wear your pin; and have a winning number. To WIN you MUST be wearing your pin when you come to the ASPE Registration Counter and you must be registered for the Convention. And, you only get to wear one pin! Only the registration staff will have a list of the winning numbers sent to each chapter.

Winners receive:

An immediate \$40 in cash as a special registration discount.



An additional forty (40), 40th anniversary truck prize drawing tickets. Just fill in your name and put them in the special prize drawing container inside the Exposition hall (good only until the truck drawing is held).

A coupon good for a random drawing to win one (1) of 100 Palm Pilots or one (1) of 400 ASPE Databanks (a mini-personal assistant) that will be available in the ASPE Pavilion.



Take the coupon to the Pavilion, stick your hand in a bag, and pull out a marble. (A red marble gets the Palm Pilot and a black marble gets the ASPE Databank; no fair peeking and you get to keep the marble!)

In the event all of the winning pins are not worn by ASPE member recipients at registration, additional winning coupons will be available to draw at each Patron booth. Take the winning coupon to the ASPE Pavilion to collect your prize. Winners

from a Patron booth will only be entitled to draw for a Palm Pilot



(until all 100 are given away) or the ASPE Databank (until all

400 are given away) and 40 extra truck prize drawing tickets (good only until the truck drawing is held).

Do You Have Your Pin?

The pins have been sent to the Chapter VPM (with a membership roster for tracking who got one).

Notice

Don't lose your pin! There is only one pin for each ASPE member. At-large and overseas members were mailed their pins.

Eastern Michigan Members Here's Your Catch

You must be present at the September 14 meeting to receive your pin. Pins will be handed out at the end of the meeting. Good luck!

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Professor Plumber sez...

CIPE/CPD Review for Exam

**Bill Grayzar, CPD
VP Education**

I hope everyone is enjoying a wonderful summer and great vacations. Soon it will be time for our ASPE meetings to resume once again for the 2004/ 2005 calendar year. The board has decided to offer a Saturday CIPE/CPD review course for those members interested prior to the October convention in Cleveland. Read the newsletter insert for all the information on the review course.

Testing your memory

If you are taking the CIPE/CPD exam, you may not be required to memorize formulas and conversion factors, but you should be able to recognize each and know what it is used for. To test your memory skills listed below are some of the conversion factors, definitions and formulas we reviewed last year.

Can you match the conversion factors, definitions and formulas to their counterparts?

Test your skills!

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

Professor Plumber sez

cont. from previous pg.

Questions?

What is the "Manning Formula" used for?

What is the "Darcy Formula" used for?

What is the "Spitzglass Formula" used for?

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

Bill

Don't Miss

ASPE Eastern Michigan Chapter's



Night at the Races

**Northville Downs
Northville, MI**

Date to be announced

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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

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

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A.C.Tech-variable speed drives, **Advance Thermal**-removable insulation & accoustical covers, **ITT Bell & Gossett**-hydronic specialties, centrifugal pumps, heat exchangers, heat transfer pkgs, pressure booster, domestic water heating, variable speed systems, vertical turbine, submersible pumps, **Cemline**-ASME tanks, hot water storage, packaged water heaters, stone steel lined tanks, replacement tube bundles, unfired steam generators, **ITT Domestic Pump**-condensate return, vacuum & pressure powered pumps, boiler feed systems, **Dow Heat Transfer Fluids** -DowTherm SR-1, DowFrost, **Dri-Steam**-steam injection, gas to steam, steam to steam, electric steam, evaporative humidifiers, ultrasonic fog humidifiers, **Griswold Controls**-coil hook-up kits, constant flow limiting valves, filter, solids separators & filter systems, **Highland Tank**-oil & water separators, **ITT Hoffman Specialties** -steam traps & specialties, condensate return pumps, pressure regulating valves, **ITT McDonnell & Miller**-boiler safety controls, level controls, flow switches, **Metraflex**-flexible pump connectors, expansion joints & guides, non-slam check valves, ball & butterfly valves, **MP Pumps**-self priming pumps, engine driven pumps, **Peterson Equipment** -"Petes" pressure/temperature test plugs, **Preso**-annular/venturi flow meters, **Vertiflo**-pedestal mount sump pumps, **Vibration Eliminator**-vibration control bases, spring isolators, **Watts Radiant**-radiant floor heating systems, snow melting systems, **Weksler Instruments**-pressure gauges, thermometers, recorders **Wessels**-ASME storage tanks, bladder tanks, glass lined storage tanks, glycol fill systems

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Alsons-shower heads, hands showers & accessories, **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

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Anaco-no hub couplings, transition couplings, SV gaskets, **Aquarius** - acrylic & gel coat shower/tub-shower surrounds, **Chicago Faucet**-hospital, commercial, laboratory, industrial faucets & fittings, **Eemax**-electric tankless & mini-storage water heaters, **Geberit**-pressure assist flushing systems, sensor faucets & flush valves, **Haws**-emergency showers, eye washes, drinking fountains & water coolers, **Husky**-heavy duty & mid-range no hub couplings, **Intersan Mfg.**-stainless steel and polyresin washfountains & lavatory stations, **J.D. Gould**-electric solenoid valves, bronze & stainless steel, **Orion Fittings**-corrosion resistant piping systems, high purity water & dilution tanks, **Powers**-thermostatic controllers, pressure-balance & thermostatic shower systems, self-actuated temperature regulators, **Stern-Williams Co.**-terrazzo mop sinks & shower floors, drinking fountains, **Tyler Pipe**-Tyler soil pipe & accessories, Rufwall systems

Aqua Bath-acrylic ADA tub & shower units, **Cooper Bline**-pipe hangers & strut systems, **Dupage Products**-threaded rod & hose clamps, **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

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