

November 2002



Eastern Michigan Chapter
www.aspeemc.org

Plumbing Design Class

Date: Tuesday, November 5, 2002

Time: 4:30 - 8:30 PM - Tour and Dinner Presentation

Cost: Members ASPE: No Charge
Non-members: \$40.00

Location:

Ford Field
2000 Brush Street
Detroit, MI

Topic: Joint Meeting with ASHRAE and ASPE at the new "Ford Field"

Speaker: John D. Richards, P.E.
of SmithGroup

Sponsors:

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PRESIDENT'S REPORT

**Joe Hernandez, CIPE/CPD
President**



I know it seems like you just put the last newsletter down and, wow, here comes another one! With the Ford Field tour coming up on November 5, we wanted to make sure everyone had one last chance to get all the information to register for it. If you are planning on attending, you must fax in the registration form. The registration form is on the back of the flyer inserted in the newsletter. This is a change from our normal registration on our web site.

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I would like to take this time to thank the efforts of Alan Deal of Performance Engineering and President of the Detroit Chapter of ASHRAE for making it possible for this joint gathering of ASPE and ASHRAE. With Alan on the ASHRAE side and Bill Grayzar on the ASPE side, I know this will be a great event. Both have been working very hard to make sure everything goes smoothly. I also want to thank John Richards of SmithGroup for the technical presentation at the end of the tour.

We have some more good things coming up. Our regular general membership meeting/class on December 10; the Fire Protection workshop is scheduled for February 15; and we are also working on another Basic Plumbing Class. This one will probably be a two-day class. The target date for this is late spring/early summer. A program brochure will be sent out for these classes.

I was recently invited to attend a conference of the PIA of M (Plumbing Inspector Association of Michigan). It was great. I met a lot of nice people and came away with a better understanding of the fine work and service the inspectors provide. Still, at the conference we all agreed we need to do a better job at understanding the codes. Venting was a main discussion. I think we will have an opportunity to work this out at the Basic Plumbing class in 2003.

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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*

This month's sponsors...

A special thank you to the following manufacturers' representatives for sponsoring the evening's class. Please visit their display tables for valuable information and literature.

K.L. McCoy and Associates

***Mr. Larry Keelan
Keelan and Associates***

Johnson Controls

Sarmiento Mechanical Sales

President's Report

continued from pg. 1

Jill Dirkson, VP Legislative, has also been busy. Jill always attends the State Plumbing Board monthly meetings in Lansing to get the latest updates. And speaking of the State Plumbing Board, long time member, Emmet Kelly is retiring after many years of service. We all wish him well.

Some of you should have already received your Guest Vouchers in the mail. If not, be expecting them soon. Remember that these vouchers allow an ASPE member to invite a guest along "free of charge" to one of the upcoming technical sessions (including dinner). However, you cannot use them for the November 5 Ford Field tour.

We have something else for the ASPE members too! The Eastern Michigan chapter will be giving away a PDA (Palm Pilot) to one lucky member. The ground rules for selection are simple: if you are an Eastern Michigan ASPE member and have attended at least six meetings during the 2002-03 year, your name will be placed in a drawing to take place in May 2003. Good luck to everyone!

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

May I start with this cliché? Been there, done that. As adults, that is what we tell the younger generation about life in today's society. Nothing changes, we just get older and the kids choose not to listen to what we have to offer.

I can attest to the aforementioned cliché, when it comes to many things. Partying until sunrise and beyond, seeing the Rolling Stones many times, driving fast-getting tickets, even having heart surgery. All of you, like myself, can identify with some of this "Been there, done that" statement.

While trying to think about what my topic for this month's newsletter article would be, I was watching the Lions versus 'da Bears'. An overtime victory, I might add. The announcers were using so many clichés. I got this revelation to write about our November 5th Technical Meeting at the new "Ford Field", in terms of Have not been there or done that.

For instance, the November meeting will be a first for two very prestigious Engineering Affiliations combining to do a joint meeting. This combined meeting between ASHRAE / ASPE will be an Inaugural Event that I hope will continue as each upcoming season passes. Also, seeing the new stadium as a visitor, up close and personal will be a first for many of us.

An integral part of this meeting will be the guided tours throughout the building and hopefully, the Mechanical Room(s) where so many of our contractor and design membership worked diligently for weeks to complete the building for the Lions first pre-season game. The contractors who worked on this project should be proud of the legacy that they helped create in the re-birth of Downtown Detroit.

Please RSVP to this meeting as soon as possible to assure a

reservation (free for all ASPE and ASHRAE members, \$40.00 dollars for guests). I believe that there is a limit of 200 people for dinner and the presentation by the SmithGroup, who were the Project Architects and Engineers. The night will begin at 4:30 pm for tours of the facility. Tours start every ten minutes thereafter, until 5:00 pm. Please refer to the Blue Insert from the October Newsletter for further details and registration information. Be There to say that you have Done That!

This combined meeting at Ford Field will supersede the previously printed meeting on Snow Melting Design set for November 26th.

The December Newsletter will also provide our readership with an overview of the events, classes and friendships made during the October 26, 2002 to October 30, 2002 ASPE Symposium and Exhibition in Dallas/Ft. Worth, Texas.

As of this writing, I do not know what to expect in Texas. I am traveling as a Delegate for the Eastern Michigan Chapter, as Vice President Technical and also a Technical Consultant for my new company. I get to "Work the Booth" and do demonstrations for my Product Exhibition Display and during the Educational portion of the days, I'll be attending classes to maintain my CPD status for ASPE. I'm excited for both opportunities. Some of you who attend will even see the western dress shirt, vest and boots that I purchased specifically for these few days of being in Texas and experiencing the nightlife.

As a proud product sponsor for the November 5th Meeting at "Ford Field", I respectfully request you and a guest attend and be part of a great time and experience this gala inaugural night. However, I regret to inform you that the ASPE Bring a Friend for Free Offer does not apply for this event.

Yee ha, ride 'em cowboy. See yawl reecal soon.



<i>December</i>						
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				

*Mark your
calendars for
December 10 for
Snow Melting and
Radiant Floor Design*

-Technical FYI-

Let's assume for a minute, or in this case a year, you have a typical laundry tub in the basement. It rarely gets attention except to unplug it on occasion from the washer lint entrainments in waste water discharge. The faucet is leaking and has been for some time. Here is the problem by the numbers.

Tablespoon = $\frac{1}{2}$ oz
cup = 8 oz
128 oz = 1 gallon
60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day
365 days = 1 year

If your faucet leaks one tablespoon of water every 5 seconds, it will waste approximately:

1 tablespoon each 5 seconds = 6 ounces per minute
or
6 ounces per minute = 360 ounces or 2.81 gallons per hour
or
2.81 gallons per hour = 67.5 gallons per day
or
67.5 gallons per day = 24,637.5 gallons per year

24,637.5 gallons

Imagine if 1000 homes have the same problem, 24,637.5 gals \times 1000 homes = you do the math!

Next month:

Energy savings on the new high efficiency water heaters and how to calculate it.

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VP Education

as reported by

Esteban Cabello, P.E., CIPE/CPD

VP Education

At an April 26, 2002 meeting between ASPE and the University of Wisconsin, the finished parts for the College Curriculum Program were finalized. This program proposes that a degreed engineering curriculum in mechanical and civil engineering incorporate a major in plumbing engineering - as a first step toward an independent plumbing engineer degreed program.

Representatives of ASPE at the College Curriculum meeting included: Ron George, VP Education; Esteban Cabello, P.E., ASPE College Curriculum Committee Chairman; and Stanley Wolfson, ASPE's Executive Director. For the University of Wisconsin, the representatives were: Professors Howard Rosen, Ph.D., Sanford Klein, Ph.D., Harold Olsen, P.E., Willis Long, Jim Park, Ph.D., John Hoopes and Erhard F. Joeres, Ph.D., P.E. of the Engineering Department.

Because of internal university politics and the need to ensure the broadest possible scope for creating a plumbing engineering curriculum, it was agreed that the program should incorporate Heating, Ventilation and Air-Conditioning (HVAC) material. By broadening the scope of the program, it should be able to attract more students, convey the multidisciplinary aspect of the program and build support within the University.

The final curriculum has been tentatively titled, "Building Mechanical Systems Engineering", a title that helps convey the broadest possible context for the program. The program could include elements such as HVAC, refrigeration and process piping.

ONE YEAR MASTERS PROGRAM: Based on the comments of Sanford Klein, the group agreed to consider the concept of a fifth year curriculum that could offer a Masters in ("Building Mechanical Systems Engineering"). This could be an add-on for people who may have graduated with a Bachelors of Science in Civil Engineering or Mechanical Engineering and have been working for a few years. Some of the courses from the course list that will be developed (see below) for the concentration (as part of a regular 4-year program), could also serve as the basis for the one year Masters.

CO-OP PROGRAM: A co-op program is regarded as a critical piece of the overall strategy to develop a successful program. UW-Madison has the capability to coordinate a national program. An industrial advisory group would be developed to ensure that industry needs are met within the curriculum. ASPE member companies would be encouraged to participate in the co-op program in a student's last few years of the program; both summer and full semester employment will be examined. At this stage of their education, the students will have completed their Cad training and basic engineering courses.

MARKETING: A three-part marketing strategy was determined to be vital to the success of the program. Marketing efforts would need to be developed that focus on marketing the degree program to university faculty and administration, potential industry contributors and to potential students.

Before a new degree program option can be approved at the University of Wisconsin, each individual course itself needs to be developed and approved by the appropriate department. Once all the courses have been approved, then a proposal can be made for the courses to be combined into an option (this proposal will need all courses listed, their titles, credits, faculty, facilities impact, co-op, estimated numbers of students).

POTENTIAL COURSES: The curriculum group identified a series of grouped courses that would serve as the basis for the degree program option and for a portion of the one-year masters degree. These courses include:

1. Fluid Mechanics I
2. Fluid Mechanics II
3. Advanced Topics in Applied Fluid Mechanics: (Flow of Fluids in Pipe, would include plumbing design subjects)
4. Thermodynamics I
5. Thermodynamics II
6. Advanced topics in Applied Thermodynamics
7. Use & Reuse of Water & Wastewater Treatment
8. Advanced Project Design in Building Mechanical Systems Engineering. (Plumbing/HVAC/Piping concentration. Many Plumbing Systems Designs will be covered in this course.)

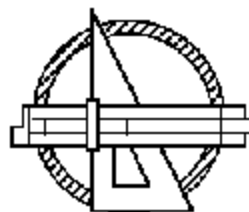
Fire Protection Class set for 2003

A Fire Protection Class has been set for February 15, 2003. This will be an eight-hour class and appropriate Continuing Education Credits (8CEUs) will be awarded to those who attend this course.

This will in the same class format as the Basic Plumbing Class held last June. While a brochure with all the details will soon be available, here is a brief overview of what to expect.

- Appropriate information gathering, where to find use group and hazard determination. Architectural input required.
- System design criteria and equipment selection.
- Available water pressure inefficiencies and limitations.
- Local jurisdictional nuances: Height of building criteria, residual water pressure safety requirements, booster pump requirements, emergency power requirements, Fire Marshal pre-review, backflow protection considerations and requirements and local Fire Department Connection specifications.
- System Calculations for most remote area or hazard classification.
- System layout.
- Special systems design: Standpipes, Combination Systems, Dry Pipe, Deluge, Foam, CO2 and others.
- Alarms, annunciation, controls, pump voltage, horsepower requirements, secondary power supply when no emergency generator is available.
- Coordination with the Electrical Engineer for power issues.
- Specification writing.
- Special piping materials considerations for high-pressure booster pump applications.
- Pipe materials-what is acceptable and where.
- Fire Protection Contractor Shop drawing preparation.
- Engineering shop drawing review process.
- Approvals and acceptance by local jurisdiction.
- Maintenance procedures and "Owner" responsibility.
- Liability issues.
- Presentation from the Fire Department angle.

Eastern Michigan



*It's your
chapter - get involved!*

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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 injections team 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

Allrich-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, **Trawl-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(E codeyne)**-commercial & industrial water treatment, R.O. systems, D.I. water, **American Turbine**-turbine pumps, **American Water Heater**-commercial tank type water heaters, **Combraco**-plumbing & heating products, backflow prevention devices, **Everhot**-stone lined indirect water heaters, **Graham**-plate & frame heat exchangers, steam instantaneous water heaters, **Genoval/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/Blucher**-stainless steel pipe, floor & bench drains, **Josam/MEA**-bench drain systems in precast polymer concrete or fiberglass, **Josam/Stem**-automatic sensors flush valves, faucets & showers, **Lasco**-PVC fittings, sch. 40 & sch. 80, **Maxitrol**-gas pressure regulators, **Mepco**-steam specialties, condensate & vacuum pumps, traps, **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, **Stibel 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, **Bell & Gossett**-hydronic specialties, centrifugal pumps, heat exchangers, heat transfer plgs, 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, **Domestic Pump**-condensate return, vacuum & pressure powered pumps, boiler feed systems, **Dow Heat Transfer Fluids** -Dow Therm SR-1, Dow Frost, **Dri Steem**-steam injection, gas to steam, steam to steam, electric steam & evaporative humidifiers, **Ebara Inter**-grinder & submersible pumps, **Griswold Controls**-coil hook-up kits, constant flow control valves, filter systems & solids separators, **Heatway**-radiant floor heating & snow melting systems, **Hoffman Specialties**-steam traps & specialties, condensate return & vacuum pumps, **MP Pumps**-self priming, ANSI centrifugal & engine driven pumps, **McDonnell & Miller**-boiler safety & level controls, flow switches, relief valves, **Metraflex**-flexible pump connector, expansion joints & guides, non-slam check and ball & butterfly valves, **Peterson Equipment**-“Petes” pressure/temperature test plgs, **Preso**-annular/venturi flow meters, **Vertiflo**-pedestal mount sump pumps, **Wessels**-Bladder & glass lined storage tanks, **Weiskler Instruments**-pressure gauges, thermometers, recorders

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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 Co.**-residential, hospital, industrial, commercial, lab & decorative faucets, **Eemax, Inc.** -electric tankless water heaters, **Guardian Equipment**-emergency eye wash & shower equipment, **Husky** - heavy duty & mid-range no hub couplings, **Intersan Mfg.**-stainless steel and polyresin washfountains, **Oasis Corp.** -Oasis water coolers & drinking fountains, **Orion Fittings**-corrosion resistant piping systems, high purity water & dilution tanks, **Stern-Williams Co.**-terrazzo mop sinks&shower floors, drinking fountains, **Symmons Ind.** -shower&finished brass products, **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, **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 blowdown 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-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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