

October 2002



Plumbing Design Class

Date: Tuesday, October 22, 2002

Time: 5:30 - 8:30 PM - Dinner and Plumbing Design Class

Cost: Members ASPE, ASSE: No Charge
Non-members: \$15.00

Location:
PMC Center
14801 W. 8 Mile Rd.

Topic: Commercial Kitchen Design and Layout

Speaker: Mr. Carlos Garcia
of Stephen Bangs Associates

Sponsors:
Balfrey & Johnston
Lochinvar Corporation
Lozuaway and Associates
Quality Water and Air

Please confirm your attendance through the web site at aspeemc.org, e-mail to progress1@comcast.net or phone Doug Cryer at 313 562-7685

PRESIDENT'S REPORT

**Joe Hernandez, CIPE/CPD
President**



Fall will be coming in with a whirlwind here at the Eastern Michigan Chapter. We've got the regular October general meeting, then Society's convention, and November 5 is the Ford Field tour.

Society's convention will be at the end of this month in Texas. Four delegates and two alternates are prepared to represent our chapter with all the fire power necessary to bring prominence to the best chapter in the entire ASPE - the Eastern Michigan Chapter. These delegates will be reviewing and voting upon current by-law changes and electing new board members at the national level.

The Ford Field tour is going to be a good one. This is the first time that we've teamed up with ASHRAE for an event. A flyer is enclosed for sign up. This is important to note because we will only be able to accept the first 60 people. This will be free to ASPE members (*a current 2002-03 membership card will be required*) and \$40 for non-members. (Membership has its privileges.) The tour will last about one hour and will be followed with a dinner. This event will be replacing our regular November meeting, but we felt this was such a good opportunity we didn't want to miss out on it. We will be back to our usual schedule in December.

Guest vouchers will be now "in the mail" for all members. These vouchers entitle a member to invite a guest to one of our general meetings and technical sessions - on the house. This voucher has a value of \$15 and is worth the dinner alone. Many members tell me the technical program is the icing on the cake because the dinners are so good. A sample copy of the voucher is in the newsletter.

We will be having an auction at the next meeting to benefit the ASPE Research Foundation. Lots of good stuff will be going - shirts, books,

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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
Forming a Code Standards Committee
between ANSI/ASTM/ASPE

January 28, 2003
Hospital Decontamination and
Sterilization Process Design

February 25, 2003
Green Buildings - what does that mean?

March 25, 2003
Snow Melting and Radiant Floor Design

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.

***Mr. George Johnston
Balfrey & Johnston***

***Mr. Jason Loverich
Lochinvar Corporation***

***Mr. Dave Lozuaway
Lozuaway and Associates***

***Mr. Alec Bien
Quality Water and Air***

September sponsor

A special thank you to Tom VanEgmond and Cindy Zatto of **VE Sales** for helping sponsor our September technical meeting.

President's Report

continued from pg. 1

mugs just to name a few. The ASPE Research Foundation is an organization apart from Society dedicated to the development of Plumbing Standards. Society does not contribute to its budget; it is independently funded by public grants and donations.

We have a new committee person to help the VP Treasurer. Wes Patton is a Sr. Mechanical engineer with SSOE with over 19 years experience. Make sure to say "hi" to Wes at the next meeting.

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**

Our September Meeting was, as I expected, both interesting and insightful. I found it compelling to listen to Mr. Mark Wesley of the Michigan State Police Task Force on Homeland terrorism and the daunting responsibilities that lie ahead for our State. In addition, Mr. John B ebow of The Detroit News spoke quite to the point about the Detroit Water Department's efforts to keep our water supply safe. John's use of highly regarded doctors and other expert researchers to help compile and critique his data used in his feature articles was equal only to his knowledge, forethought, hands-on investigative approach and professionalism in questioning the Water Department hierarchy about known gaps or lapses in security was alarming.

The bottom line for this meeting was for all of the public and the Plumbing Professionals to be aware of the potential threat, accept new design challenges and keep "Michigan's Greatest Resource", our water supply, safe for generations to come.

Our October Meeting will present the design challenges that Plumbing Professionals face with large Commercial Kitchens. Our expert speaker for the evening will be Mr. Carlos Garcia, F.C.S.I. of Stephens-Bangs Associates, Inc. They are a food service design firm in Southfield, Michigan.

As designers, we are given a set of Food Service Equipment Plans with labeled utilities. It is the Food Service Equipment Design firm's responsibility to meet with the end user to determine use, magnitude of operations and specifically, the placement of the equipment in each department of the food service area and confirm with the Owner the proper orientation with respect to space allocation and ergonomic operational flow. For instance, the cooking areas are usually separated from the food service preparation and washing areas.

The equipment location is one aspect that I found to be very critical when it came to the design and layout of the underground sanitary system. The grease producing equipment, washing areas, the fish department and the toilet waste must all be considered and connected to the main(s) before leaving the building in a fashion that often incorporates crossing pipes, such that the invert elevations do not intersect and are properly vented. Some communities still vary in their installation practices and should be consulted when three compartment sinks, dishwashers and tilting kettles and skillets are provided. I have had to design some systems with exterior grease interceptors, as mandated by the County Jurisdiction's EPA Department with dishwasher greasy waste included in the grease interceptor sizing. I was actually told by the EPA Official what size to specify (1,000 gallons). I did not agree with him, but I was at his mercy for that project. I suggest a phone call to the specific County Health Department be the first priority, before designing one line on the plans.

I will discuss grease trap locations with regard to ergonomics and cleaning and also which appliances or equipment should actually be piped to the interceptor. As I said, some municipalities vary in their requirements. I plan on asking some of the local County Health Departments to attend and possible speak to us about their individual requirements and reasoning as to why.

I hope to cover invert elevation calculations, proper venting design, water hammer locations, backflow prevention and proper air gap distances over indirect waste drains, locations of indirect and direct waste drains and their proper connections. Most of these drain locations are part of Food Service Equipment Design drawings, but they can be altered. If the opportunity for discussion with the Food Service Designer is early enough into the project that the sanitary piping has not been installed, then changes can be incorporated in all the plans, including Architectural since they design the pitch to each floor drain.

Hot water storage quantity, recovery rates and temperature are all very important to the Commercial Kitchen operation. What type of equipment or fixtures gets what temperatures of water? Hot water recirculation is also important so that the correct temperature of water is delivered and maintained throughout the system during operational hours.

As I previously mentioned, I hope to have members of several local Health Department Officials in attendance to clarify their positions and the Kitchen Plan review process. I am sure that some of you have had to fill out and submit calculation sheets to Architects for Health Department approvals and know the work that is involved with that process. I will try to include an overview of these worksheets.

Also, I will present airflow design considerations for area pressurization, Kitchen Hood Design over grease producing appliances and dishwashers, descriptions of hoods and related fire protection. Including natural gas shut off valves, their operation and what is the proper sequence of operations from the HVAC side of the trade. I have a nice handout of a simple sequence of operations for Kitchen Hoods and their related components. I realize that we are a plumbing organization, but with kitchens airflow is just as critical for proper function and operation.

I look forward to your attendance of this meeting and request that you RSVP to me at propress1@comcast.net for reservations prior to our meeting, so I can give an accurate head count to our great caterer.

I also look forward to representing our Eastern Michigan Chapter as VP Technical at the Convention in Dallas. See some of you there.



November



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

Mark your calendars for November 5 for the joint meeting with ASHRAE and ASPE at the new "Ford Field"

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ASPE 2002 Convention and Engineered Plumbing Exposition

October 26-30, 2002

Fort Worth, Texas



It's time again for the best convention in our business. Come join your fellow members in Ft. Worth for a Texas size get together. The ASPE Biennial Convention and Engineered Plumbing Exposition will be held October 26th through 30th. There are over 40 educational sessions planned along with an Exposition that features over 300 exhibitors in 600+ booths. What other event in our industry can you get this broad range of educational sessions in addition to the product demonstrations and information? On top of all the great opportunities to expand your knowledge, there are numerous fun and social activities in which you will want to be involved. If you chose to bring your spouse, there are many tours and events designed specifically for them and their enjoyment. Also, if you decide to bring the kids as well, ASPE will, for the first time, provide a program that will keep the kids active and entertained for the day and into the evening. With these opportunities and great things happening, there is no excuse for you to not be a part of this fabulous event.

As always, our exhibitors will be bringing to the Convention their latest products in conjunction with members from their engineering staffs. The ASPE Convention is different from other conventions in that you have the opportunity to get the most up to date product, technical and design information possible at one location. In addition, you get the chance to discuss design questions and issues directly with the manufacturer's engineering staff. This does not happen at other expositions. WHAT AN OPPORTUNITY!!!

Speaking of opportunities, how about all the options that is available to expand your knowledge. The theme this year is Get A Kick Out Of Plumbing Engineering Education. There will be computer courses for the beginner and intermediate user and a six course track on Basic Plumbing Engineering for the beginning plumbing designer and for those that want to bone up on their basic plumbing knowledge.

There will be sessions on many plumbing related topics including numerous brand new topics such as Cryogenic Piping Systems, Compressed Natural Gas Fueling Stations and GREEN building design, just to name a few. Professional development courses are another opportunity for you to improve yourself by enhancing your communication and people skills and, for the first time, "hands on" sessions have been included so that you can get your hands dirty and learn how to perform actual installation and testing procedures. All these sessions carry CEU's. These opportunities are not available at other conventions. As you can see, there is something for everyone, CHECK IT OUT!

Also, there will be opportunities for FUN and ENTERTAINMENT! Make sure that you catch the keynote speaker, Capt. Gerald Coffee. Capt. Coffee was a POW during the Vietnam War and a "resident" of the Hanoi Hilton. He has a wonderful and compelling presentation. Also, don't miss the "How Far Can It Go" contest (is our chapter going to get involved?) and the Sunday night party at the world's largest Honky Tonk, BILLY BOBS. Don't forget to see the Bull Riding at their in bar arena. If you don't have fun there, you need to check for a pulse. As a public service reminder, the Banquet this year is on TUESDAY night. It will be just as great as ever with some outstanding entertainment and just a plain old good time. This will allow everyone to catch all of the convention and still be home on Wednesday evening. For you that arrive early, we are having a meet and greet get together on Saturday evening to say Hi to old friends and meet new ones.

Do not miss out on this wonderful, fun filled and mind expanding opportunity! See you in Ft. Worth the last week of October.

Pete Johnson
Convention Chairman

Here it is - the Eastern Michigan ASPE "Guest Voucher". All members will be receiving one of these in the mail. It will allow you, the Eastern Michigan member, to bring along a guest for free of charge the next time you attend a technical session.

Guest Voucher

This voucher authorizes the Eastern Michigan Chapter member to one guest for a dinner and technical session

Member Name _____ Guest _____

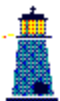
Date _____

It's simple to use:

1. You and your guest register for a class (on-line at www.aspeemc.org or e-mail propress1@comcast.net.)
2. Come to the class.
3. Present your guest voucher at the door. This will allow your guest to attend **FREE OF CHARGE**. (Remember, as a member, you attend all of our dinner/technical sessions free of charge.)
4. Enjoy dinner and learn from one of our knowledgeable speakers at the technical session.

Not sure what class to bring a guest to? The class schedule is always published in the monthly newsletter and also on our web site at www.aspeemc.org.

What a better way to share the great benefits of being an Eastern Michigan ASPE member.



Spotlight on our Members



Joe Hernandez was recently named an Associate of SSOE Architects and Engineers in Troy, MI. Joe is the manager of the Mechanical Engineering Dept. of the Retail Division. He has been with SSOE for 7 years.

Joe is currently the President of the ASPE Eastern Michigan Chapter. He is a charter member of the Eastern Michigan Chapter and has held several positions in the chapter including Vice President Technical, Vice President Education and is also a Past President.

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R.L. DEPPMANN CO.

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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

Alrich-steel tube, oil & gas-fired boilers. Low pressure steam, hydronic and volume hot water heating systems, **Autotrol**-water purification by deionization. Capacities up to 20,000 gallons per day, **Hobby Valve Co.**-low/standard range thermostatic mixing valves 1/2" to 4", **Lawler Valve Co.**-low/standard range thermostatic hot water mixing valves, emergency shower valves, temperature and pressure balanced mixing valves 1/2" to 2", **Raypak**-copper-fin hydronic and domestic hot water supply boilers, booster heaters & storage tanks. Sizes from 30 MBTU to 4,000 MBTU, **Rund Manufacturing**-commercial & residential gas-fired and electric hot water heaters & booster heaters, **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 codyne)**-commercial & industrial water treatment, R.O. systems, D.I. water, **American Turbine**-turbine pumps, **American Water Heater**-commercial tank type water heaters, **Conbraco**-plumbing & heating products, backflow prevention devices, **Everhot**-stone lined indirect water heaters, **Graham**-plate & frame heat exchangers, steam instantaneous water heaters, **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 plugs, pressure booster, domestic water heating & variable speed systems, vertical turbine & submersible pumps, **Cemline**-ASME tanks, hot water storage & packaged water heaters, stone steel lined tanks, replacement tube bundles, unfired steam generators, **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 plugs, **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

American Society of Plumbing Engineers-Eastern Michigan Chapter

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