

March 2004



# ASPE NEWS

American Society of Plumbing Engineers

## Eastern Michigan Chapter

[www.aspeemc.org](http://www.aspeemc.org)

### Plumbing Design Class

**Date:** Tuesday, March 23, 2004

**Time:** 2:00 - Registration  
2:30 - 9:00 pm - Program  
6:00 - 6:30 pm - Dinner

**Cost:** \$20.00 per person  
Reservations required  
(See insert)

**Location:**  
St. John's Armenian Church  
22001 Northwestern Hwy.  
Southfield, MI

**Topic:** New Michigan Plumbing Code  
Review

**Speaker:** Robert Konyndyk

**Sponsors:**  
To be announced

***Please confirm your  
attendance through the  
web site at [aspeemc.org](http://aspeemc.org)***

## **PRESIDENT'S REPORT**

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

### **President's Pulpit**



Is there really a separation between church and state, when our U.S. currency states "In God We Trust"? Then, can there be separation between church and ASPE? The reason I'm even bringing this subject up is twofold. The first is that my wife and I saw *The Passion of Christ* at the movies and were profoundly moved to tears. His dedication to a belief and steadfast mind set really sets the bar high for humans. The second was something that my pastor used in her sermon the day following that movie. She was speaking about how Christ was tested, time after time. Barbara said that his testing was very similar to other types of testing that we know about. An automobile crash test, where the automaker is testing their products, beyond normal usage to highlight the strengths, not the weaknesses. With that said, I would like to encourage all of you people striving to go beyond the normal daily challenges and test your strengths by completing and passing the CPD Exam in April or at the ASPE Convention in October.

For our February subject: Test Taking Practices for the CPD Exam, I was happy to see 30 people there to listen and learn. Mr. Daw Alwerfalli, Ph.D. was our speaker. He is currently a professor at Lawrence Technological University and the Mechanical Engineering Department Head. I liked the fact that he gave our ASPE Plumbing Engineering Society a pat on the back and recognition for the "Plumbing Engineer". He is trying to initiate and integrate our plumbing formulas, equations and principals into the Mechanical Engineering programming at LTU. I applaud his integrity. I personally know we do not get the respect for the engineering that takes place in every project that has domestic water, storm, sanitary and venting for fixtures that are a requirement of the International Building Code. In fact, a building cannot receive a Certificate of Occupancy without plumbing fixtures.

Our second speaker, Ms. Cheryl Van Hovel of HILTI, was very informative with her witty and prize filled presentation about Fire Stopping-What is it? Where do I need it? Who specifies it and who installs it? She had

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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 3, 2004  
Second Saturday Technical Review Course (8 hours)

April 27, 2004 - Architectural and Structural  
Interferences, Coordination and  
Value Engineering Panel Discussion

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

## President's Report

*continued from pg. 1*

some outstanding facts about instances of fires in the U.S., pictures and subsequent litigation and even death statistics. She was extremely knowledgeable from her seasoned experience and offered help to all who requested it. Even informed us that HILTI has five licensed Fire Protection Engineers on staff to offer suggestions and help with details, ratings or specification writing. Cheryl enjoyed herself, as well. She knew quite a few people and had not seen some of them for many years and enjoyed reacquainting herself with her former friends. If you know Cheryl, like I know her through my partner, then you understand her dedication to this industry. If you need to get in touch with her for anything, I hope you got her card.

Again, the "Night at the Races" is scheduled for Northville Downs on Friday March 19, 2004. Table request sheets have been mailed to the newsletter manufacturer representative advertisers for requesting their "Special Guests".

Remember, the Tuesday following the Night at the Races we are very privileged to have Mr. Robert Konyndyk, Chief of the Michigan Plumbing Codes Division speak at the St. John's Armenian Church in Southfield, MI. See the additional notice, map and registration information package inside February's Newsletter. Reservations are required. We are limited to 175 people. Five (5) CEU Credits will be given for Inspectors and attendees who require them.

I also encourage you to mail in (separately) the form for your new 2003 Michigan Plumbing Code Books (only \$44), so you have them to make marks, comments or clarifications to the text that Mr. Konyndyk may explain.

Please take a chance and get into the Code Study & Development Group of Southeastern Michigan raffle. It costs only \$250 (totally tax deductible) for the possibility of winning \$20,000, \$10,000, \$5,000 or seven \$1,000 prizes. The Code Study Development Committee is hoping to make some money to finance their trip to the ASPE Convention in October.

I know many ASPE members recently got notices in the mail from the National Society informing you that your 2002 CPD Requirements had never been recognized and further documentation and even monetary amounts were being requested. Do not worry. All of the people who got the first notice also

*continued on pg.7*

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](mailto:newslettereditor@aspeemc.org).

# VP TECH REPORT

**Wes Patton**  
**VP Technical**

The month of February ended on a great note with the Compuware tour lead by ASHRAE president John Cole. For those of you who missed it, the event was a joint meeting between APSE and ASHRAE. Mr. John Cole and his associates did an excellent job explaining the details of his arena design. Also, the end of February included a refresher of testing skill that was very enlightening, with Professor Alwerfali from Lawrence Technical University giving a thorough overview of the CIPE exam.

March sessions begins with social evening at the "Night at the Races" occurring on March 19, 2004 at The Northville Downs in Northville, Mi. Please remember to get your tickets for the night of events at the cost of \$27.00 per person or sponsor a table that will seat a total of six people. Also, this will be an excellent event for spouse or guest.

Also, the month of March will include the session on Michigan Plumbing Codes. The speaker will be Mr. Robert Konyndyk, chief of the Plumbing Division for the state of Michigan. Be sure to attend this event and have all of your questions answered first hand. The topic will cover commercial, industrial, institutional and residential construction. Current code books (\$44.00 ea.) will be available for sale the night of the event, with advance order. The entire event will be six hours long with dinner provided. Cost for the night is \$20.00 dollars per person and please remember to reserve your spot. The event will be held March 23, 2004 at St. John's Armenian Church in Southfield, Mi. with registration beginning at 2:00 pm.

April 27, 2004 will kick-off a session on Architectural and Structural Interferences, Coordination and Value Engineering panel Discussion.

The May 25, 2004 session will wrap up with the Open Microphone Night for Vendors and BBQ. This event will feature vendors speaking on their products. The session will be held at PMC Detroit. Remember to come to this event hear from all the vendors with their helpful hints.

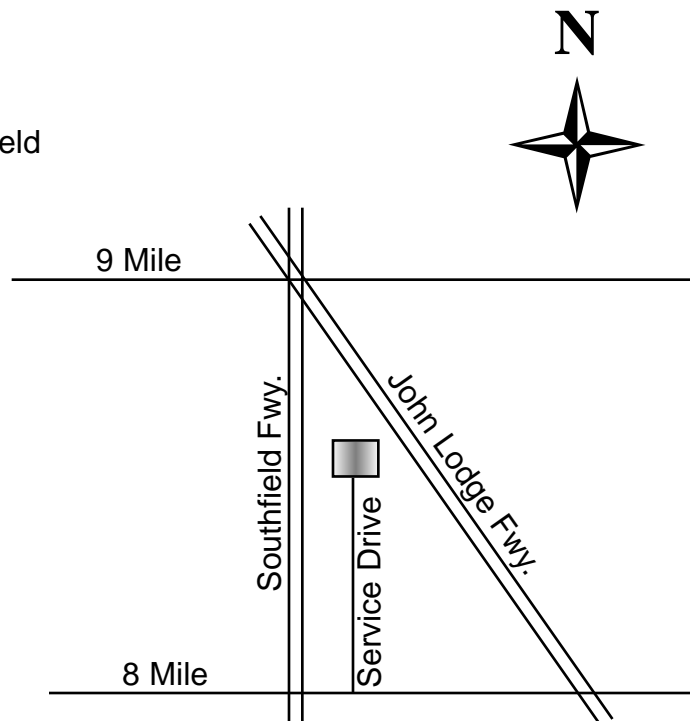
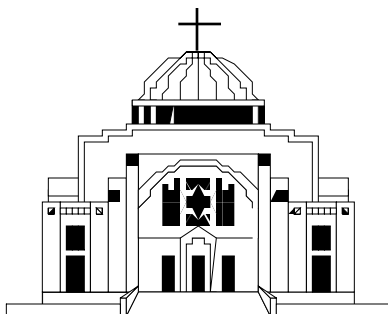
## St. John's Armenian Church

22001 Northwestern Hwy.

Southfield, MI

248-569-3405

(The church is at the end of the Southfield Service Dr. north off of 8 Mile Rd.)



*Mark your calendars for  
 April 3, 2004  
 Saturday Technical Review  
 Course (8 hours)  
 and  
 April 27, 2004  
 Architectural and Structural  
 Interferences, Coordination and  
 Value Engineering Panel  
 Discussion*



*April*



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	

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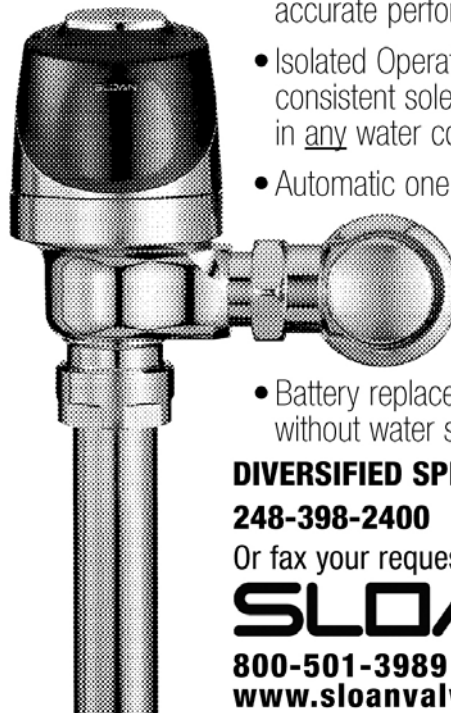
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## Professor Plumber sez...

**Bill Grayzar, CPD  
VP Education**

### **CIPE Review Course**

It's time to hit the books for those of you preparing to take the CIPE exam this spring. CIPE review books are currently available at PHI Detroit for a cost of \$50.00. I strongly suggest anyone interested in taking the CIPE exam purchase a review book and begin studying now. It is my understanding that supplemental material containing all of the formulas needed will be provided with the actual CIPE exam. Although the formulas will be provided, you will still need to know how and where to utilize them.

The review course will be April 3rd, 2004 at PHI Detroit and will begin promptly at 8:30 am. The course will be approximately 8 hours in length and will include a sample exam, which will be reviewed and critiqued. The cost of the review course is \$35.00 before March 31st, 2004 and \$60.00 at the door. An additional fee of \$25.00 is required for non-members. Register early and save some cash.

Mr. Esteban Cabello, PE, CIPE President of JRED Engineering in Dearborn Heights, MI and Mr. Joe Hernandez a manager at SSOE Engineering in Troy, MI will be conducting the review course. Both gentlemen are a wealth of knowledge having many years of experience in the engineering field and with ASPE.

Another benefit to early registration is the fact that currently the closest CIPE exam sites are Columbus, OH and Rochester, NY. If we have more than ten people who are preparing to take the exam, the Eastern Michigan Chapter of ASPE will petition the National Board and try obtaining a Michigan site for the exam. The exam will also be available at the convention in Cleveland, OH next fall.

Look for the CIPE review course flier in the next few weeks for course and registration information. Remember to register early and save some cash.

### **CIPE Exam**

The CIPE exam is a closed book exam consisting of 100 multiple choice questions. None of the questions are purely theoretical in nature; every question is "job related" and deals with a critical aspect of the tasks required for the design and specification of plumbing systems. Familiar technology and symbols are used throughout.

There are five major areas covered by the CIPE exam. They are Gathering Information, Design, Specifications, Construction Services and Administration.

Up until now my articles have focused mainly on the design portion of the exam because the majority of the CIPE exam is based on this section. However, you should note that a few questions from each of the other sections may, and probably will, appear on the exam. If you review these areas prior to the exam, you should be able to pick up a few easy answers. To give you idea of what I mean I am going to briefly review the Gathering Information area this month.

### **GATHERING INFORMATION**

#### **Scope of Work**

Project scope varies from project to project and "scope creep", a term I am sure we are all familiar with, can cause undesirable financial results. Prior to the start of work, determine what has to be done.

- Obtain the scope of work from the project manager (engineer) or the person directly responsible for the management of the project.
- Establish a listing of all persons on the project team.
- Keep the project manager apprised of all issues that appear to be beyond the project's original scope of work.

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## **Professor Plumber sez...**

*continued from previous page.*

### **Construction Budget**

Establish the construction budget early in the design process. Project costs can be calculated utilizing a square foot or per fixture calculation, or by an actual item by item takeoff from the drawings, depending upon the progress of the project and the detail of accuracy required for the cost estimate. A popular method is to follow procedures as outlined by one of the nationally accepted estimating guidebooks, such as that by R.S. Means Co., Inc.

Budget restraints will dictate materials to be used on the project.

### **Authorities, Codes, Regulations**

It is important to identify the authorities having jurisdiction for the project. Individuals who may be involved in a project include: the plumbing inspector, the building inspector, the fire chief, the municipal engineer, the health department, the water department, the sewer department, and the insuring agency.

All applicable codes and regulations should be obtained and studied to insure an acceptable job. In addition, ADA and OSHA requirements must be considered.

### **Utilities**

Public utilities are the heart of any job. It is essential to determine their availability, size, loca-

tion, pressure, capacity, and all other pertinent information. The usual sources of such information are the various site plans, which are generally obtained from the architect. The "site plan" shows all above ground features of the project, and the project or contact line limits. It may or may not show contour lines and subsurface structures. The "site topographic plan" shows the existing topography (contour lines) and the final contours to be obtained. The "site utility plan" shows the water, sanitary, storm, gas, and electric utilities.

All these sources influence the design of the plumbing systems for the building and the site. Most required information can be obtained from these plans; however, some vital additional information must be obtained from the various municipal building departments such as: the type of sewer system (sanitary, storm, or combined), minimum and maximum water and gas pressures available, the municipalities' rules and regulations, etc.

This is brief look at what might be covered under the Gathering Information area of the CIPE exam. You should review and be familiar with this information. I would expect to see at least two and maybe as many as five questions regarding gathering information on the exam.

Good luck to those of you planning to take the CIPE exam. I hope to see you all at the April 3rd review course.

*Bill*

## **President's Report**

*continued from pg. 2*

got a second notice, informing them to disregard the first notice and everything from 2002 was, in fact, on record and no further information or documentation will be required to National ASPE.

However, this is the year for re-certification of your CPD credentials and you will be required to file a form with all the pertinent data filled in and of course, the \$35 (?) registration fee. Packages should be in the mail from Society soon with all the information you will need to understand what and how to fill out the Certification form. I suggest that you make copies of all your substantiating data and check, in case we ever have to prove that you have completed all the requirements to be re-certified.

Finally, our ASPE elections will again be held in May for next seasons Board of Director's. If you feel that you have some extra time and the inclination to serve, then please make your name and position desired known to me or anyone else on the Board, so that we can qualify you and put your name on the ballot for election by the members.

In closing, can I get an AMEN?

Respectfully yours.

*Doug*

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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.



## Quality Water & Air, Inc.

Manufacturers' Representative

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**ABS Pumps**-sump & sewage pumps & systems, **American Water Heater** - commercial tank type water heaters, **Conbraco**-plumbing & heating products, backflow prevention devices, **DWV Foundry**-cast iron soil pipe, fittings, full port valves, **Ecodyne**-commercial and industrial water treatment, R.O. systems, D.I. water PVC drains & cleanouts, **Everhot**-stone lined indirect water heaters, **Flo-Pak/Patterson Pump**-pressure booster systems, package HVAC pumping systems, fire pump systems, **Genova/J.M./Jet Stream**-Sch. 40 PVC, solid & cellular core, Sch. 30, SDR 26 & 21, gasketed & belled end, CPVC & sewer pipe, **Graham**-plate & frame heat exchangers, steam instantaneous water heaters, **Griffin Products**-stainless steel sinks & fixtures, **H.B. Smith** -commercial cast iron steam & hot water boilers, **Hydrotherm**-commercial & residential cast iron modular & pulse boilers, **John Wood Co.**-ASME & commercial pressure vessels, storage & expansion tanks, **Lasco**-PVC fittings, sch. 40 & sch. 80, **Maxitrol**-gas pressure regulators, **Mepco**-steam specialties, condensate & vacuum pumps, traps, **Mifab**-roof & floor drains, cleanouts, carriers, interceptors, access doors, trap primers, hydrants, **Polycast**-trench drain systems in precast polymer concrete or fiberglass, **RBI**-commercial & residential copper-fin boilers & water heaters, storage tanks, pool heaters, **Rehau**-radiant floor hydronic heating & snow melt systems, plumb-pex, **Space Pak**-air conditioning systems, **Thermex**-point of use electric water heaters, **Thrush**-circulator pumps, inline pumps, end suction pumps, heat exchangers, hydronic accessories, **Weinman Pump** -base mounted, horizontal split case, turbine, condensate systems, **Wheatley**-pump accessories, heat exchangers, expansion tanks, air separators, CBV, TDV, strainers&valves, flexible connectors

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# **ASPE NEWS**

*American Society of Plumbing Engineers-Eastern Michigan Chapter*

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