

ASPE NEWS



Cleveland Chapter of The American Society of Plumbing Engineers

February 2008

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We'll I guess it's another 6 weeks of winter as Phil the groundhog, otherwise known as Punxsutawney Phil, saw his shadow. Nice going Phil. Although if the rest of winter continues as it has thus far, we just may escape the season with little snowfall. I'll start holding my breath now....

I have a bit of sad news to report. Cleveland ASPE Chapter member, and retired member of Plumbers Union Local 55, **Al Gray**, passed away last month. Al has been a member of the Cleveland Chapter for

over 5 years and has served as a Plumbing Inspector for some local area communities. Al, you will be missed very much.

We had another great turnout for our January meeting! I would like to thank **Grant Roberts** and **Dennis Malkin** of **Roberts Mechanical** for being on hand that evening. For those of you who missed the meeting, Grant gave a great presentation about Venting and Combustion Air for boiler and water heating systems. I would also like to thank **Tim Campbell** of **Campbell Equipment Company** as well as **John Griffin** of the **LIBB Company** for presenting a tabletop at the meeting. Thank you all very much for supporting your local Chapter.

Online Registration for the **2008 Engineered Plumbing Exposition** officially opens the first week of May. It's a little ways away but mark your calendars now and start planning as it will be here before we know it. One lucky attendee at the Exposition this year will drive away with a 2009 Saturn Sky! Make sure you are at the EPE on **October 27-29** for your chance at winning this great prize. More details on the Exposition will follow in the months ahead.

Last month ASPE launched the first ASPE Webinar on "Green Buildings and the Plumbing Codes". It was a great success with about 455 participants. The education committee is planning to put on more in the near future with the next one planned for March. Possible future topics include Medical Gas Systems, Syphonic Roof Drainage, Domestic Hot Water Design, and Grey Water Systems. Continuing education credits will be received upon completion. ASPE continuing education credits are approved by the state of Ohio.

Volume 3 of the **Plumbing Engineering Design Handbook** is now being distributed. Expect your copy by the end of January. Volume 4 is progressing well and is scheduled to be completed by early summer with mailing to members in July. As you know volume 1 is being chaired by Dean Proctor of the Ottawa Chapter. Dean is in need of writers for two chapters for this volume. If you are interested please contact Dean at Dean.Proctor@mckeeottawa.ca. The goal is to try and have this volume completed and mailed by the end of 2008.

The next online proctored **CPD exam** will be held on **April 18th or 19th** of this year. The deadline to register is March 14th. More information can be found inside this month's Newsletter or on the ASPE website at www.aspe.org.

From the President (Continued):

Plumbing Systems & Design Magazine (PS&D) is currently looking for plumbing engineers and designers to serve as technical editors. Editors will work with managing editor to ensure technical accuracy of the articles. Journalism experience is preferred but not required. If you are interested please contact Managing Editor Gretchen Pienta at gpienta@aspe.org. Technical editors receive a small stipend for all completed reviews.

National Engineers Week is February 17-23! The Cleveland Chapter would like to acknowledge the activities of our Members or Companies. If you or your Company are sponsoring an event we would love to hear about it! Events will be featured in the March edition of the Newsletter.

The latest newsletter and Chapter information has been posted on our web site. The site can be accessed at www.clevelandaspe.org.

Reminder: We need to provide an accurate head count to Harry's Steakhouse for those who will be attending the next Plumbing Training Session. Please send in your RSVP via email to Kevin Noble at knoble@sbmce.com no later than noon on Friday, February 8th. If you do not RSVP by this time, we cannot guarantee that a meal or handout will be reserved for you.

Michael Drab,
President, Cleveland Chapter

From V.P. Technical:

I would like to thank Grant Roberts, with Roberts Mechanical Equipment for being our guest speakers at the January 9, 2008 training session. The topic of the seminar was Combustion Air and Venting for Water Heaters. The presentation outlined the ANSI categorization as it relates to acceptable vent material, "rules of thumb" for determining type of vent, how efficiency directly correlates to the vent material, how to measure your vent run accurately, most common code violations, and solutions to challenging venting and combustion air applications.

The February 13, 2008 seminar topic will be Fire Protection Systems. The speaker will be Todd Stevens, with Viking Corporation. Todd is a National Technical Representative of the Technical Service Department with 9-years of experience in the fire protection business.

Please confirm your reservation for this seminar by noon of Friday, February 8, 2008 with Kevin Noble at knoble@sbmce.com. If you have any questions and/or comments about the seminars, please do not hesitate to contact me at jvarga@sbmce.com.

John A. Varga
V.P. Technical, Cleveland Chapter



Grant Roberts - Roberts Mechanical

Thank You Grant!

From V.P. Legislative:



As the VP Legislative officer of the Cleveland Chapter, it is my responsibility to inform the members of any code changes that may be in the works. Right now there are no published changes that I am aware of. Since there is nothing new to report, I thought I would give you a little history lesson on the creation and development of the Ohio Building Code. Here is an edited version of that timeline:

The first building code written for application throughout the State of Ohio was started in 1911 when the Ohio legislature passed an act providing for a building code to regulate the construction, repair, alterations, additions, sanitation and fire protection for public buildings.

- From 1913 to 1921 the Division of Workshops and Factories was the enforcement agency for the partial code. The code was also supplemented by rules of the Industrial Commission.
- 1921 - The Department of Industrial Relations was created with the Industrial Commission being attached to a new department for administrative purposes.
- 1934 - The Industrial Commission became a separate department under the direct control of the Governor. This left the Department of Industrial Relations with the Division of Workshops and Factories to administer the building code but without rule making power.
- The rules of the Industrial Commission which supplemented the still incomplete codes were declared invalid for enforcement purposes. During this period there was a Board of Building Standards. The Board had the authority only to declare a particular material, fixture or device equivalent to that specified in the Ohio Revised Code.
- In the early 1950's the legislature directed the Ohio Program Commission to set up a committee to prepare a comprehensive building code. The building code in existence in Ohio from 1911 was a statutory code. Each of its provisions was specifically enacted by the legislature as a section of the Ohio Revised Code. This procedure required that every amendment or addition to the code must also await action by the legislature and work its way through the legislative process to final enactment.
- A "new" code was formulated and submitted to the General Assembly in 1953 for consideration. The bill, as presented, contained some 830 pages and there was strong opposition from industry.
- 1955 - The Ohio General Assembly passed enabling legislation making it possible to formulate a building code by administrative procedures. This legislation created the Ohio Board of Building Standards.
- 1973 - The Ohio Building Officials Association (OBOA) requested the Board of Building Standards to adopt a national model code in place of the Ohio Building Code (OBC).
- 1976 - OBOA again requested the Board to adopt one of the national model building codes. The Board instructed staff to compare the ICBO Uniform Code, the BOCA National Code, and the SBCCI Southern Standard Code.
- 1977 - The Board held a series of open hearings to get input from the building construction industry and from the code enforcement agencies.
- 1978 - The Board of Building Standards decided to use the BOCA National Building and Mechanical Model Codes. Staff changed those sections of the basic model codes that conflicted with the Ohio Revised Code to bring it into compliance with the General Assembly's legislation. A public hearing was held and the Board adopted the BOCA codes as the Ohio Basic Building Codes on September 29, 1978. The Board set an effective date of July 1, 1979, for the OBBC. The date was set to allow the building construction industry, design professionals, and enforcement agencies to familiarize and educate themselves concerning the code. The Board also made several major changes to the original adoption in May and June, 1979 as a result of industry input.

From V.P. Legislative (Continued):

- The enforcement agency at the State level allowed plans to be submitted between July 1, 1979 and September 30, 1979 under either OBC (the outgoing code) or under OBBC, the new code. This allowed for a smooth transition.
- Since that time the Ohio Board of Building Standards adopted building code requirements based upon the BOCA model code documents and the Board's staff modified them to be consistent with Ohio law.
- 1994 - The International Code Council (ICC) was established as a nonprofit organization dedicated to developing a single set of comprehensive and coordinated national model construction codes. The founders of the ICC are Building Officials and Code Administrators International, Inc. (BOCA), International Conference of Building Officials (ICBO), and Southern Building Code Congress International, Inc. (SBCCI).
- 1998 - The Board of Building Standards began using the ICC model code documents as the basis for the OBC and the OMC. The International Building Code (IBC) was published in January 2000 and was adopted as the basis for the Ohio Building Code effective in January 2002.
- The ICC is still used today as the basis of the OBC and OMC.

If you are interested, the complete article that recounts the history of the code can be found on the Ohio Department of Commerce website.

Mitch Clemente, CPD
V.P. Legislative



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**2007-2008 ASPE Meeting/Plumbing Class Schedule
February 2008**

<u>Date – Time – Place</u>	<u>Agenda</u>	<u>Speaker</u>	<u>Exhibitors</u>
February 13, 2008 – 5:00 PM Harry's Steakhouse Cost: \$23.00	Topic – Fire Protection Systems	Todd Stevens – Viking Corporation	Viking Viega Victaulic
March 12, 2008 – 5:00 PM Harry's Steakhouse Cost: \$23.00	Medical Gas Installation	Edward Lyczko – Cleveland Clinic	Tri-Tech Medical
April 9, 2008 – 5:00 PM Harry's Steakhouse Cost: \$23.00	Groove Piping Systems	Dave Burns - Anvil	Anvil
May 14, 2008 – 5:00 PM Harry's Steakhouse Cost: \$23.00	ADA Compliant Fixtures (Tentative)	Tom Campbell – Campbell Equipment	

The above is the meeting/plumbing class schedule for the 2007-2008 ASPE year. Updated information will appear in subsequent newsletter issues. All meetings will be at Harry's Steakhouse, 5664 Old Brecksville Road, Independence unless otherwise indicated. The meeting/plumbing class, including dinner, is \$23.00. Reservations are required. A mini product show will be held before each meeting/plumbing class highlighting some of the materials discussed in class or products that will assist the engineer in understanding what they are designing or specifying. All plumbing classes will qualify for 0.1CEU hours and will assist in preparation for the ASPE CPD examination.

The following times will be enforced as strictly as possible. Make your reservations a minimum of two days before the meeting/class and try to be on time.

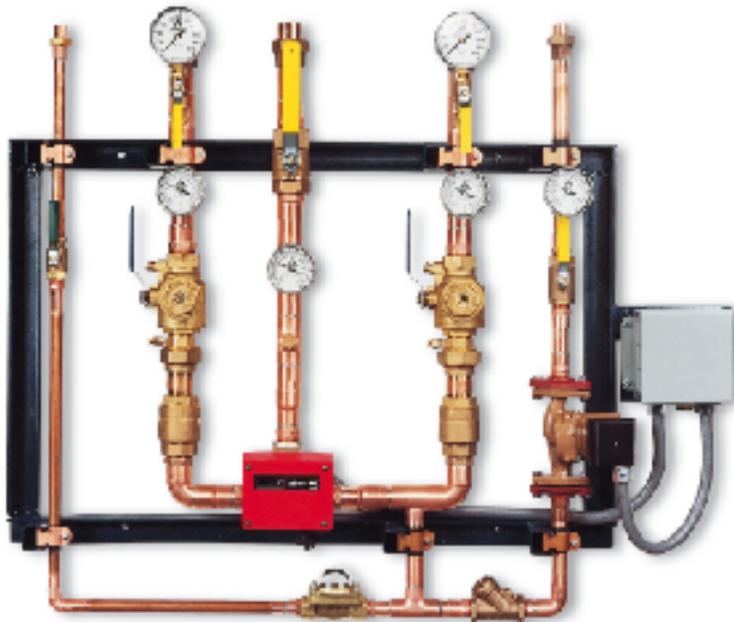
- Mini product show 5:00 to 6:00 Dinner 6:00
- ASPE business 6:30 Plumbing Class 6:45 to 7:45

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<ul style="list-style-type: none"> Optimized design delivers 87.5% water savings over conventional 1.0 gpf urinal 	<ul style="list-style-type: none"> 100% water savings over conventional 1.0 gpf urinal 	<ul style="list-style-type: none"> No water conservation benefits
<ul style="list-style-type: none"> Standard housekeeping practices apply 	<ul style="list-style-type: none"> Significantly increased housekeeping and maintenance training costs 	<ul style="list-style-type: none"> Standard housekeeping practices apply
<ul style="list-style-type: none"> Unlimited installation applications 	<ul style="list-style-type: none"> Limited installation applications 	<ul style="list-style-type: none"> Unlimited installation applications
<ul style="list-style-type: none"> Lowest operation and maintenance costs 	<ul style="list-style-type: none"> Highest operation and maintenance costs 	<ul style="list-style-type: none"> Moderate operation and maintenance costs
<ul style="list-style-type: none"> User acceptance 	<ul style="list-style-type: none"> Decreased user acceptance 	<ul style="list-style-type: none"> User acceptance
<ul style="list-style-type: none"> No drain line maintenance required 	<ul style="list-style-type: none"> Annual drain line maintenance 	<ul style="list-style-type: none"> No drain line maintenance required

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Side by Side Cost Analysis Assumptions			
Gallon Per Flush	0.125	0.000	1.000
Daily Users per urinal	50	50	50
Typical Use per day/per user	2	2	2
Combined Water/Sewer Rate per 1,000 gallons	\$7.00	—	\$7.00
Uses per Cartridge	—	3,500	—
Cost per Cartridge	—	\$55.00	—
Days of Operation per year	260	260	260
Total Uses per year	26,000	26,000	26,000
Annual Water Usage Comparison			
Water Use (gallons/day)	12.5	—	100
Water Use (gallons/year)	3,250	—	26,000
Cartridge Use (quantity/year)	—	7.42	—
Annual Operating Cost Comparison			
Annual Flush Valve Maintenance Costs	\$20.00	—	\$ 45.00
Cartridge Cost (year)	—	\$408.10	—
Water/Sewer Cost	22.75	—	182.00
Total Annual Operating Cost	\$42.75	\$408.10	\$227.00
Estimated Annual Savings Comparison			
Estimated New System Purchase Price	\$ 600.00	\$ 399.00	\$ 450.00
Total Annual Operating Cost	42.75	408.10	227.00
First Year Cost	642.75	807.10	677.00
Ten Year Cost	\$1,027.50	\$4,480.00	\$2,720.00



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2008 CPD EXAMINATION
April 18th or 19th – 2008

Registration Opens January 7, 2008
Deadline: March 14, 2008
CPD Bulletin Available Online Only@
www.aspe.org → Certification → CPD Bulletin

The CPD Examination is Only Available Online.

The CPD designation is achieved through successful completion of the comprehensive CPD examination and maintained through a biennial recertification program.

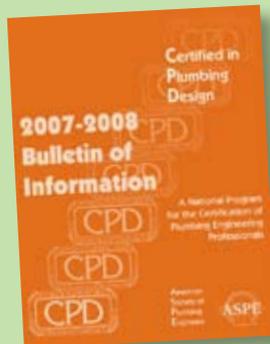
The Certified in Plumbing Design (CPD) program is an international certification program for engineers and designers of plumbing systems. Successful completion of the CPD examination confers upon the candidate the designation "Certified in Plumbing Design" or CPD. The certification program provides the profession, the plumbing industry, and the general public with a single, comprehensive qualification of professional competence for engineers and designers of plumbing systems.

The CPD:

- Identifies those individuals who fulfill prescribed requirements of experience, responsibility, and conduct.
- Recognizes those individuals who meet a standard of professional competence.
- Encourages plumbing engineers to participate in a continuing program of professional development.
- Provides a standard for educational programs in plumbing engineering.

ELIGIBILITY

To be eligible to take the CPD examination, a candidate must possess a minimum of four (4) years of practical experience in a position of responsibility for the design of plumbing systems and possess a baccalaureate degree in a field related to engineering. In lieu of an accredited degree, a candidate may substitute up to an additional four (4) years of practical experience in the design of plumbing systems, for a total of eight (8) years, or be granted a credit of one-half year of practical experience for each one (1) full year of education in an accredited curriculum related to plumbing engineering.



CONTENT OF THE EXAMINATION

The CPD examination consists of 100 multiple-choice questions covering five major job dimensions: Gathering Information • Administration • Design • Specifications • Construction Services. The examination time allowed is 3 hours and 30 minutes.

TESTING FEE

The testing fee for the examination is \$375 for ASPE members, \$300 for ASPE members with P.E. and \$625 for nonmembers or \$550 for nonmembers with P.E.

PRACTICE EXAMINATION

CPD Practice Examinations may be available (visit www.aspe.org for more information). The Practice Exam is only available online, so you can take it from the comfort of your home or office. A Practice Exam has 30 questions covering the same five major job dimensions as the actual exam. Fee: \$75 per practice exam.

EXAMINATION DATE & TIME

The 2008 CPD Exam will be administered on Friday or Saturday, April 18th or 19th, 2008 depending on the available sites. After you register you will be contacted with a proctor number and an available site near you. The assigned testing site will confirm a test-taking date and time. Material needed will be available on-site. You should plan to bring a non-programmable calculator.

WHERE TO TAKE THE TEST

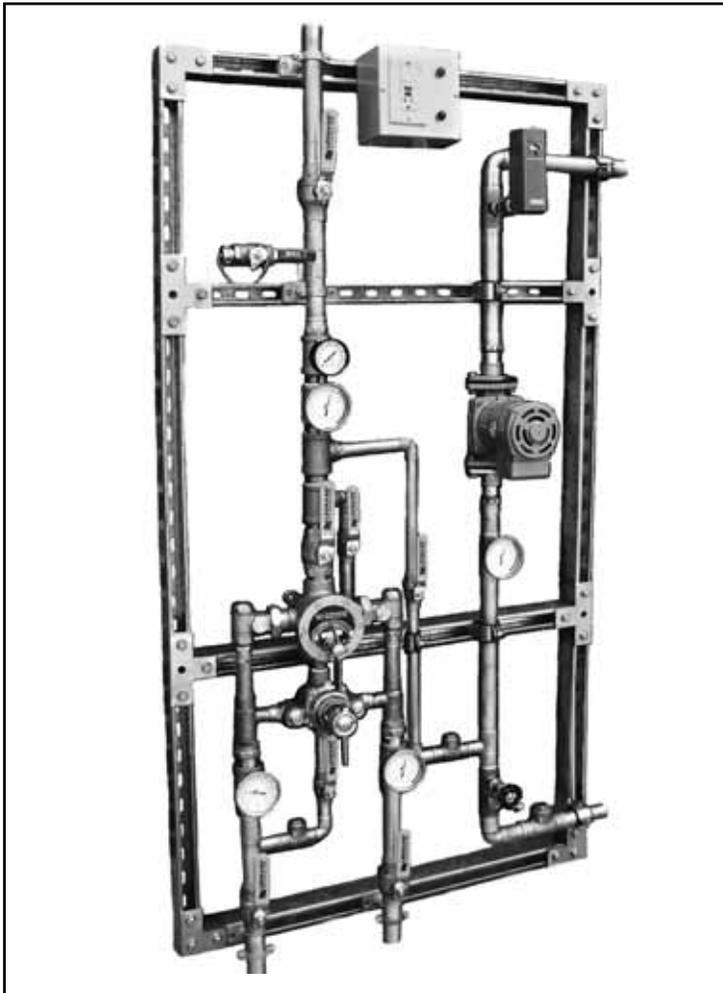
The April CPD exam will be an online proctored exam. There are approximately 200 possible testing sites throughout the United States and Canada — depending on a site's availability for our dates.

INFORMATION AND CPD BULLETIN

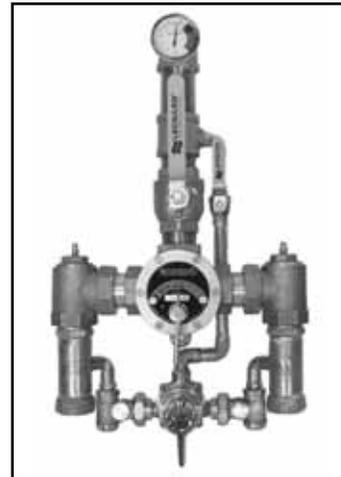
For more information about the test, download the 2007-2008 CPD Bulletin at www.aspe.org, certification, cpd bulletin.

More Choices

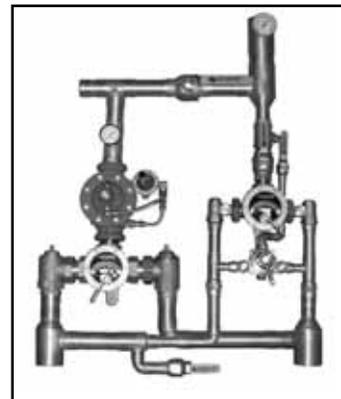
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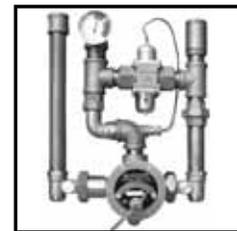
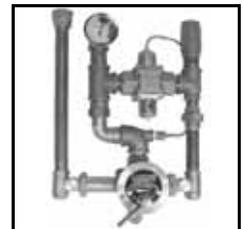
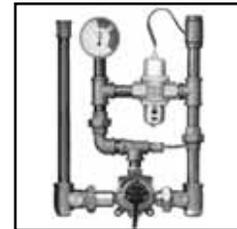
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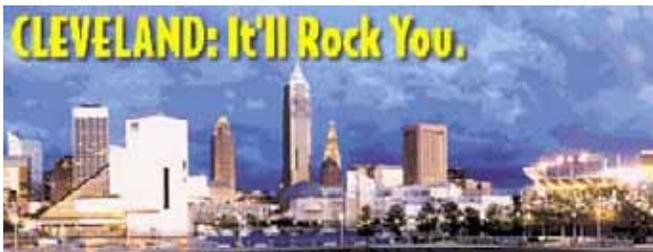
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