

December 2004



American Society of Plumbing Engineers

Eastern Michigan Chapter

www.aspeemc.org

Serving our membership since 1975

Published monthly

## Plumbing Design Class

**Date:** Tuesday, Dec. 14, 2004

**Time:** 5:30 - 9:00 PM  
Dinner & Class

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

**Location:** PMC Detroit Offices  
14801 W. 8 Mile Rd.

**Topic:** Single Stack  
Drainage Design

**Speakers:** Fabio Castellani  
Walter Cornwall  
(See bios on page 4)

**Sponsors:** Studor  
Proset Systems

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

## PRESIDENT'S REPORT

Esteban Cabello, PE, CIPE



As Thanksgiving approaches once again, I would like to give thanks to our many ASPE members who give their time in making this professional organization what it truly is - A Great Program. The list is too long to publish, but I will say that we have members involved in many aspects of our organization - standards committees, board of directors, speakers, code study development committee, the various chapter committees, various State organizations, and of course the various sister organizations such as ASHRAE, MSPE, ASSE, NFPA, ICC, MBPA and many others. Without the efforts of these individuals, it would be next to impossible to offer you the outstanding programs that we bring to you every month. Our next meeting will focus on single stack drainage systems. Looking at the horizon, the annual ASSE banquet will take place on January 29th, a heating and steam seminar will take place in April, and a plumbing code class will take place in April as well. As you can see, we have a lot to offer and we should be thankful.

*Wishing you and your families  
peace and joy this Holiday Season,  
Esteban*

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MISSION: ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of its members, and to the health, welfare and safety of the public.

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# American Society of Plumbing Engineers

## Eastern Michigan Chapter

### 2004-05 Technical Classes

*Held monthly at the  
(except where noted)*

**PMC of Detroit  
14801 West 8 Mile Road  
Detroit, MI 48235**

September 14, 2004  
Plumbing Law Suits

October 19, 2004  
Gas Piping Design

November 16, 2004  
Piping Expansion and Seismic Control

**December 14, 2004  
Single Stack Drainage Design**

January 25, 2005  
Software For Plumbing Design

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

March 22, 2005  
Replacement Standards For ASSE 1016 & 1017

April 26, 2005  
Medical Gases

May 24, 2005  
To be announced

### Saturday Classes

April 2nd - Legislative Seminar  
Michigan Plumbing Code Review Seminar

April 16th - Education Seminar  
New Concepts in Hydronic Heating Seminar

# YourName @ Any.Where

Please send your e-mail address to us at:  
**info@aspeemc.org**

We need your help! The Eastern Michigan Chapter is planning on going paperless. This step would give the Chapter an opportunity to redirect resources to better serve our membership. Email addresses will be used for Chapter business only.

### Backflow Prevention \$1000 SCHOLARSHIP

This nationwide scholarship competition was established to reward students that seek to increase their knowledge and understanding of how Cross Connection Control and Backflow Prevention help ensure safe drinking water. The competition is open to ALL students aged 14 to 19 in the USA and Canada. ABPA/BPMA are managing and judging the contest. The contest will be open from October 1, 2004 through January 31, 2005. Visit [www.abpa.org](http://www.abpa.org) or [www.bpma.cc](http://www.bpma.cc) for rules and submission form.

## Mark Your Calendars

**January 25**     *Software for Plumbing Design*  
**January 29**     *ASSE Michigan Chapter  
Annual Awards Banquet (See p.6)*



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					

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 Mary Chapman. Checks should be made payable to ASPE E. Mich. Chapter and send check with inserts or ad to Mary Chapman. Circulation 400-Distributed to: Engineers, Contractors, Inspectors, and other industry professionals in Michigan. For contributing articles contact Mary Chapman, Newsletter Editor at [mary@pmcdetroit.com](mailto:mary@pmcdetroit.com).



# Professor Plumber sez...

**Bill Grayzar, CPD  
VP Education**

**This month I would like first to congratulate ASPE Member Dave Jones of the John E. Green Company who attended the convention in Cleveland, where he took and passed the CPD Exam.**

**Great job and hats off to Dave Jones, CPD.**

## **Innovative Ideas and Concepts**

A new year is just around the corner and with a new year will come new codes, standards and innovative design ideas. One of the upcoming ideas is Siphonic Roof Drainage Systems. At the convention in Cleveland, I attended a course describing, in brief, Siphonic Roof Drainage and the concepts behind it. The speakers for the course were Michael Sommerhein (M.Sc, MBA) and Per Sommerhein (D.Sc).

Siphonic Roof Drainage was started in a laboratory at the Technical University in Finland in the early 1950's. A young engineer by the name of Olavi Ebeling was puzzled by the problem of vortexes propagating through his equipment for testing of plumbing fittings, slowing down test work. He solved the problem by placing a disk above the pipe inlet to the equipment. After leaving the test institution and starting his practice as a mechanical plumbing engineer, he recognized an opportunity to generate large costs savings by reducing the size of the copper piping that the Finnish government mandated be used in roof drainage. After a period of trial and error to understand how a roof drainage system utilizing full-bore flow could be created, his first patent application was registered in 1968. In 1972, Mr. Ebeling was joined by Per Sommerhein from Sweden to design the first large-scale installation of the system in Sweden for a large turbine factory. From that point on, the system rapidly gained market acceptance from throughout Scandinavia and became the standard in roof drainage.

Conventional roof drainage systems are based on atmospheric pressure and gravity flow conditions throughout

the system. Relying on the Manning Formula for open channel flow, air is assumed to be present in the pipes and flow capacity is directly dependent on the pitch of the pipes.

A siphon moves water horizontally and/or upwards through suction (negative pressure) created by water falling under the force of gravity in the downstream vertical sections of the pipes. The same effect is utilized in Siphonic roof drainage. Special Siphonic roof drains that restrict the ingress of air at high rainfall intensities make it possible to induce a siphon effect as water flow, with very little air content, reaches vertical sections of the pipe work and falls under the force of gravity. The falling water creates a negative pressure propagating upstream with fractions of seconds, inducing higher flow capacities.

There was, both, a lot of interest and a lot of concern by those in attendance at the seminar. In brief, what I learned from the seminar was that because the Hazen Williams formula was not accurate enough for sizing of Siphonic drainage systems, the Darcy formula was utilized for their sizing criteria. Also, in Siphonic roof drainage systems both negative and positive pressures are possible. Some key points to remember, if you are looking into a Siphonic drainage system, are size for a velocity of about 3 feet per second and you will need to account for slowing of velocity and the discharge of the system. The entire system was balanced, requiring a calculation for each branch of piping. The height used for Siphonic roof drainage calculations is based on the height from a surcharged catch basin rim to the roof line of the building.

This was only a brief overview of Siphonic roof drainage systems. I believe we will be seeing more of the concept in the near future, but I believe the concept has a long way to go before we see its implementation in design in the United States as an acceptable standard for roof drainage. If you would like additional information on Siphonic drainage systems, I have a handout I received at the seminar and would be happy to share with anyone interested in learning more on the concept of Siphonic Roof Drainage.

Look for a synopsis of other courses I attended at the Convention in upcoming ASPE newsletters.

*Happy Holidays!  
Bill*

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**Bradford White Corporation** - residential & commercial water heaters, **Brass Craft Mfg** - stops & supplies for water gas, plumbing specialties/shower heads, **Charlotte Pipe & Foundry** - cast iron, PVC, CPVC, industrial & residential pipe & fittings, **Crane Plumbing-Fiat** - plumbing fixtures, mop bases, **Delta Faucet Company** - Delta, Peerless, Delta Commercial, residential & commercial faucets, **IPS Weld -On Water Tite Studor** - pipe cements, washing machine boxes, venting and drainage materials and air admittance valves, **MAAX Collection: Aker-Pearl-Manhattan** - tub showers, shower stalls and whirlpool tubs, **Olsonite Toilet Seats** - toilet seats, **Oasis Corporation/Sunrock** - electric water coolers and drinking fountains, **Watco Bath Wastes** - bath wastes & accessories, **Woodford Manufacturing** - wall & yard hydrants

**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

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## December Speakers Bios

### The December 14, 2004 Design Class speakers are:

**Fabio Castellani** is with Studor Inc, an IPS company. The Vice President in charge of the new Engineered Product Division, Fabio has 24 years experience in engineering sales of thermoplastic PVF. More recently, he has spent several years with acid waste and return air plenum rated acid waste systems for which he has written technical manuals as well as published articles.

**Doug Cornwall** comes from a Michigan family of four generations of plumbers, dating back to 1906. Although not a plumber himself, Doug worked for his dad, who is a

plumber, after school and in the summer time while he went to college. During that time, his dad, Ken Cornwall, invented Proset Systems and the family got into manufacturing and specializing in multiple-story structures. Doug's dream was to market his dad's invention and live in Florida. After he graduated from Michigan State's Business School with a Bachelor Degree in Business, Doug followed his dream by moving to Florida. "I've been involved with piping systems for 24 years and marketing the Sovent system nationally and internationally for 22 years. We have reps all over the country," states Cornwall.



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## Did You Know?

Over the 10-year period (2002-2012), the Bureau of Labor Statistics predicts that the construction industry will grow 15.1%, just over one million jobs, increasing from 6.7 million in 2002, and reaching 7.7 million in 2012.

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## VP TECH REPORT

Wes Patton

Hello everyone, I hope you had a great Thanksgiving. The Christmas holiday season is fast approaching with our last meeting of this year Tuesday, December 14. The topic of the December meeting will be Single Stack Drainage Design. Please remember to be on hand to get your questions answered on this topic. Many shortcuts to plumbing systems will be mentioned, during this meeting, that could reduce material cost in piping layout, etc.

Mark your calendars for January 25, for the topic of Software For Plumbing Design. This will be a meeting that you do not want to miss. Also, we will be starting our Saturday classes. Please remember to pre-register for the classes. Happy Holidays.

*See you in December,  
Wes*

## It's Time to Update Your Information!

Make sure we have the latest information for our Membership and Manufacturers' Representatives Directories. Contact Brett Young at (248) 669-2800, fax to 248 669-3310 or email byoung@burkeagency.com or call Mary Chapman at (313) 341 7661 ext. 210, fax to 313 341-1007 or email to mary@pmcdetroit.com with any changes in your personal or business information.

# VP LEGISLATIVE REPORT

**Ron George, CIPE/CPD**

Last month, I attended the ASPE convention and the Legislative Committee meeting. Ray Moore was elected as the new ASPE VP Legislative for the Society Board. I wish him well in his code and standard efforts. Dick Wagner has been serving as the chairman of the Legislative Committee. Dick announced he will be stepping down and Ray Moore will be seeking a new legislative committee chairman.

I also attended the ASSE Standards Committee meeting and Seal Control Board meeting at the ASSE annual meeting last week in Miami. There were several standards

that were sent to the board of directors for approval. The ASSE Standards Committee also dealt with several complaints about manufacturers stating they comply with requirements, or meet requirements of an ASSE Standard, without applying for a test with a third-party testing lab or applying for an ASSE seal. The Standards Committee will be mailing letters to the manufacturers.

We are still working on sponsors for the seminars for this spring. I will let you know more details next month.

*Ron*

## A Letter to the Readers

**Vicki Hernandez, ASPE-EMC Newsletter Publisher and Web Site Administrator**

For the past eight years, I've had the privilege of publishing the monthly newsletter and designing and maintaining the web site for the ASPE Eastern Michigan Chapter. But as of December 1, Mary Chapman will be handling the newsletter and web site.

During the years I've had the pleasure of getting to know many of you at the meetings and other special functions. I've also been able to work with some great board members - and this is what I'll miss the most.

I know that everyone will give Mary the same support that I have seen over the years.

I wish all of you and your families a wonderful, safe and happy holiday season.

*Vicki*

## New ICC Appointees

In recognition of the valuable contributions and active participation by the Code Study and Development Committee of Southeastern Michigan in the code process, the International Code Council has appointed four members to sit on ICC national code committees.

**Two members of ASPE-EMC were among those chosen:**

Ron George, CIPE/CPD, was appointed to the Residential Plumbing and Mechanical Code Committee; and Barry Pines, CIPE/CPD, was appointed to the ICC Fuel Gas/Mechanical /Plumbing Code Interpretations Committee.

Others appointed include Paul Frost, a Southfield inspector, and Carl Schroeder, Training Director for the Local 98 Plumbers School. Both gentlemen are to sit on the ICC Plumbing Code Committee. Congratulations to all!

## ASSE Michigan Chapter Annual Awards Banquet

**Saturday, January 29, 2005**

**5:00 PM**

**St. John's Conference Center**

44045 Five Mile Road  
Plymouth, MI 48170

\$40.00 per person (\$45.00 / door)

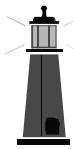
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## Spotlight on our Members



Vicki Hernandez



Joe Hernandez

On behalf of all of us here at the Eastern Michigan Chapter of ASPE, we would like to thank you both for all your efforts during the past eight years, editing and issuing our newsletter and creating our web site. We will miss your professionalism, creativity and most of all, your caring for the success of our Chapter. We wish you well and we will miss you.

*Esteban*

See page 6 for a letter from Vicki.

THANK YOU...THANK YOU...THANK YOU

### **HISTORICAL MOMENT: MDPMCA/PHCCASM Merger** **John R. Nussbaum, Administrative Secretary**

*Editor's note: MDPMCA and PHCCASM are two associations affiliated with two different national organizations: the Mechanical Contractors Association of America and the Plumbing-Heating-Cooling Contractors National Association. Both groups have been coexisting under the Plumbing and Mechanical Contractors of Detroit (PMC Detroit) roof, where the monthly ASPE-EMC design classes are held.*

November 11, 2004 brought together, under revised bylaws and a merger agreement, two of the oldest and most respected plumbing and mechanical contractor associations in Southeastern Michigan. The Metropolitan Detroit Plumbing and Mechanical Contractors Association (MDPMCA) and the Plumbing, Heating and Cooling Contractors Association of Southeastern Michigan (PHCCASM) will now operate under the MDPMCA identity. Members, present from both associations, voted unanimously to merge during the recent membership meeting at the Westin Hotel in Southfield.

PHCCASM, a 90-year-old association founded in 1914, has a proud history of being an industry leader in promoting licensing and regulations, plumbing codes and stan-

dards. PHCCASM moved their offices in 1986 from Lincoln and Greenfield in Oak Park to the MDPMCA building on West Eight Mile Road in Detroit, in order to more effectively serve the members of both associations.

The two associations have been partners through an agreement dating back to 1956. The Council Agreement allowed for the joint management of the Plumbing and Heating Industry Fund of Detroit, now the Plumbing and Mechanical Contractors of Detroit (PMC Detroit), and for joint representation of management, along with labor, on the plumber fringe trust funds. Both associations participated together in labor negotiations and contract agreements with Plumbers Local 98.

The leadership of both associations mutually felt, after 18 years of working together, it was time to come together as one and save the expenses of running two separate operations.

**John R. Nussbaum, IPP FASSE, Plumbing Industry Consultant and retired Executive Director of PHCCASM**

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## Quality Water & Air, Inc.

Manufactures' Representative  
1402 Souter  
Troy, MI 48083  
Alec Bien  
Ph 248 589-8010 Fax 248 589-8016  
qualitywaterair@hotmail.com

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Quality Water & Air, Inc.  
1402 Souter  
Troy, MI 48083  
(248) 589-8010 fax: (248) 589-8016  
qualitywaterair@hotmail.com

## Lozuaway & Associates, Inc.

Manufacturers' Representatives  
1160 W Hill Road  
Flint, MI 48507  
Mike Ostrowski  
Wayne Phillpotts  
Ph 810 234-1635 Fax 810 234-8389  
moski@lozuaway.com

## Meek / Beck & Associates, Inc.

Manufacturers' Representatives  
11875 Belden Court  
Livonia, MI 48150  
Ross Beck  
Ph 734 458-2950 Fax 734 458-2953  
meekandbeck@aol.com  
www.meekbeck.com

## Merlo Steam Equipment Co., Inc.

Manufacturers' Representatives  
35745 Beattie Dr.  
Sterling Heights, MI 48312  
Gregory J. Merlo  
Ph 586 978-8434 Fax 586 978-8459  
gregm@merlosteam.com  
www.merlosteam.com

**A.O. Smith** - water heaters, boilers, commercial & residential, **American Plumber**-water filtration products, **Bemis/Church** - plastic, wood and medic-aid, residential & commercial toilet seats, **Boots Plumbingware**-steel lavs & tubs, **Howell Metal** -copper tubing, **Jones Stephens Corp**-plumbing specialties, **Little Giant Pump Co.** -sump, sewage & condensate, **Mansfield Plumbing**-plumbing products, china/steel/brass, **Plastic Trends** - PVC SDR 35 gasketed 4"-24", PVC SDR26 heavy wall gasketed 4"-18", PVC SDR 35 solvent weld 4"-24", styrene solvent weld 3"-6", PVC/DWV solvent weld 8"-24", **Plumco** -specialty products, **Royal Quickstop**-fire protection systems, **Swirl-way**-acrylic whirl-pool tubs, Vandem-no hub cast iron soil pipe and fittings

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**Nibco Inc.**

1516 Middlebury Street  
Elkhart, IN 46516-4740  
Dane P. Badgero  
Ph 800 234-0227 Fax 219 295 3307  
badgerod@nibco.com  
www.nibco.com

**Performance Engineering Group**

Engineered Water Products  
32955 Industrial Rd.  
Livonia, MI 48150  
Alan Deal  
Ph 734 266-5300 Fax 734 266-5310  
www.performanceengineering.com

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Southfield \* Grand Rapids \* Saginaw  
Southfield Office: P.O. Box 5023  
20929 Bridge St.  
Southfield, MI 48086-5023  
Mary Anderson  
Ph 248 354-3710 Fax 248 354-3763

**Sales Service Plus, Inc.**

Manufacturers' Representatives  
45606 Mast St.  
Plymouth, MI 48170  
Kirby J. Meagher  
Ph 734 454-7620 Fax 734 454-7632  
kmeagher@salesserviceplus.com  
www.salesserviceplus.com

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## Taggart-Knight Group

Manufacturers' Representatives  
32985 Hamilton Court, Suite 102  
Farmington Hills, MI 48334  
Gary O. Taggart  
Ph 248 553-4388 Fax 248 553-4653  
info@taggartknight.com

## TRO Sales Company

Manufacturers' Representatives  
3406 West 12 Mile Road  
Berkley, MI 48072  
Thomas R. Osberger  
Ph 248 546-5354 Fax 248 546-3513  
trosalesco@aol.com

## Underwood Fire Equipment Inc.

Fire Equipment Sales, Service, Repair & Testing  
P.O. Box 43  
Novi, MI 48376  
Darrell W. Underwood  
Ph 248 347-4975 Fax 248 347-0843  
info@underwoodfire.com  
www.underwoodfire.com

## V.E. Sales Co., Inc.

Manufacturers' Representatives  
25200 Jefferson Avenue  
St. Clair Shores, MI 48081-2347  
Cynthia Zatto  
Ph 586 774-7760 Fax 586 774-1490  
cell 810-343-2713  
cindy@vesalesinc.com  
www.vesalesinc.com

## Dave Watson Associates, Inc

Manufacturers' Representatives  
1325 W. Beecher St.  
Adrian, MI 49221  
Dave Watson, Jr.  
Ph 517 263-8988 Fax 517 263-2328  
watsonassoc@tc3net.com

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**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*

Mary Chapman, Newsletter Editor

P.O. Box 37317  
Oak Park, MI 48237

Internet Address

<http://www.aspeemc.org>

e-mail address

[info@aspeemc.org](mailto:info@aspeemc.org)

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## 2004-2005 ASPE Officers and Committee Chairpersons

### President

Esteban Cabello, PE, CIPE  
JRED Engineering, Inc.  
5608 N. Charlesworth St.  
Dearborn Hts., MI 48127  
313 565-5580 Fax 313 565-9818  
[jredengineering@comcast.net](mailto:jredengineering@comcast.net)

### Vice-President Membership

Brett Young  
Burke Agency, Inc.  
2605-A Oakley Park Rd.  
Walled Lake, MI 48390  
248 669-2800 Fax 248 669-3310  
[byoung@burkeagency.com](mailto:byoung@burkeagency.com)

### Treasurer

Doug Cryer, CSI, CIPE/CPD  
Viega Pro-Press  
3600 Academy  
Dearborn, MI 48124  
313 406-2693 Fax 313 406-2959  
[doug.cryer@viega.com](mailto:doug.cryer@viega.com)

### Affiliate Liaison

Cindy Zatto  
V. E. Sales Company, Inc.  
25200 Jefferson Ave.  
St. Clair Shores, MI 48081  
586 774-7760 Fax 586 774-1490  
[cindy@vesalesinc.com](mailto:cindy@vesalesinc.com)

### Vice-President Technical

Wes Patton  
S.S.O.E., Inc.  
1050 Wilshire Blvd. Ste. 260  
Troy, MI 48084  
248 643-6222 Fax 248 643-6225  
[wpatton@ssoe.com](mailto:wpatton@ssoe.com)

### Vice-President Education

William Grayzar, CPD  
DiClemente Siegel Design, Inc.  
28105 Greenfield Rd.  
Southfield, MI 48076  
248 569-1430  
[bill@dsdonline.com](mailto:bill@dsdonline.com)

### Corresponding Secretary

George Johnston  
Balfrey & Johnston, Inc.  
P.O. Box 37317  
Oak Park, MI 48237  
313 864-2800 313 864-7219 Fax  
[george@balfrey-johnston.com](mailto:george@balfrey-johnston.com)

### Newsletter Editor

Mary Chapman  
PMC Detroit  
14801 W. Eight Mile Road  
Detroit, MI 48235  
313 341-7661 Fax 313 341-1007  
[mary@pmcdetroit.com](mailto:mary@pmcdetroit.com)

### Vice-President Legislative

Ronald George, CIPE/CPD  
Ron George Design & Consulting  
6275 Masserant Rd.  
Newport, MI 48166  
734 586-2040 Cell Ph 734 755-1908  
[rongearge@charter.net](mailto:rongearge@charter.net)

### Administrative Secretary

John Nussbaum, FASSE IPP  
PMC Detroit  
14801 W. Eight Mile Road  
Detroit, MI 48235  
313 341-7661 Fax 313 341-1007  
[jnussbaum@pmcdetroit.com](mailto:jnussbaum@pmcdetroit.com)

### Hospitality

R. L. Deppmann Company  
Southfield Office: P.O. Box 5023  
20929 Bridge St.  
Southfield, MI 48086-5023  
248 354-3710 Fax 248 354-3763

### ASPE Night at the Races Chairman

Wes Patton  
S.S.O.E., Inc.  
1050 Wilshire Blvd. Ste. 260  
Troy, MI 48084  
248 643-6222 Fax 248 642-6225  
[wpatton@ssoe.com](mailto:wpatton@ssoe.com)