



NEWS

Eastern Michigan Chapter *
http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 15, Issue 3

Plumbing Design Classes

Date: Tuesday, November 8, 2011
Where: MASCO - Taylor, MI
SEE map on back page

NO CPD/CODE Class

**This Meeting was Arranged by
 MASCO CORPORATION AND
 THE BURKE AGENCY**

Dinner: 5:30 PM
 ASPE, ASSE, MBPA Mbrs: NC

**DESIGN CLASS
 6:00 - 8:00 PM**

Topic: LEED Plumbing @ MASCO
 [Green Plumbing Fixtures]

Speaker: Jeremy Cantor
 with Delta Faucet Company
*See page 3 for program,
 bio & panel members*

See the full event schedule on our web site.

REGISTRATION REQUIRED
 RSVP by the **Friday** prior
 to day of class to:

Dann Holmes, Director/ Chapter Affiliate:
dann.holmes7@gmail.com
 (248) 939-2476

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From Joe Hernandez, CPD President Of EMC ASPE



What do you get when you put an engineer, contractor, master plumber and an inspector together in a single room? Give up? You get a lot of great candid and honest talk. This is what we had last month at our general membership meeting. Actually there were two engineers, one was a business owner and the other an employee for a major AE firm, so there were two perspectives that evening. These five gentlemen gave their candid views on the current drawings being

published and submitted for construction; the bottom line is that more is expected, while time and fees have been greatly reduced to perform what was once the standard. BIM is also playing a major part during the design phase and now in the construction coordination phase. It's like I said last month welcome to the 21st century.

This month we switch tracks and go down the Green-LEED road, we'll be taking a trip to the MASCO facility in Taylor. The Burke Agency is hosting the entire evening with a solid presentation on "Green" plumbing fixtures. They will also allow us to tour the Alex Manoogian Art Collection. Not that "Green" plumbing fixtures are boring, but to see a few rare artworks is well worth the trip to Taylor. The details for the journey to the MASCO facility are in the next few pages so take a night out and be entertained.

Books, books and more books, that's what we got from the national society. I just want to remind the general membership that these bundling of books will not last long and I recommend that if you are involved in plumbing engineering to take advantage of this unique opportunity.

Our December meeting scheduled for December 13 is one that will give one great insight on the process of providing ultrapure water. This presentation will guide you through an entire process of going from raw water to laboratory quality water. Mr. Chris Yarima, of Millipore, will be giving the presentation on how to design a laboratory quality water system using the latest technology.

Have you found them yet? I'm talking about the October Photo contest of course and locating the ten missing items removed from the doctored photo. If you have all of missing items identified simply follow the submittal instructions and if you are correct you will then be placed in a pool for successful candidates for a random selected winner. If you are not successful this time don't worry, we are planning another Photo contest in December's Newsletter.

If you still would like a shot at winning an Instantaneous Water Heater you still can! There will one more round of raffles tickets sales. At the MASCO

continued on page 4

* Chapters are not authorized to speak for the Society.



SHW Group, LLC, a full service architectural and engineering firm, was originally established as Duce Simmons Associates in 1998 to exclusively provide design services to public K-12, community college and university education clients in Michigan. Today, we have over 80 professional staff including architects, mechanical, electrical and structural engineers, interior designers and educational planners, all in-house to ensure proper coordination and exception service. This integrated A/E approach greatly facilitates communication between the client and team members, and provides our clients with the best value, as well as a well-coordinated project.

At SHW, we believe in the profound impact architecture has on an individual's life and society as a whole. In support of this belief, SHW Group is dedicated to designing environments that inspire, support, and promote the discovery and exchange of knowledge through our commitment to learning, stewardship, and craft.

In short, we make a difference through design.

RANKINGS

Architectural Record

2007- "Top 150 Firms", #27 SHW Group

BD World Architecture

2008- "Education Top 10", #3 SHW Group

Engineering News Record

2009 - "The Top 25 in Education", #5 SHW Group

Building Design + Construction

2009- Giants 300 "Top 75 K-12 School Design Firms", #11 SHW Group

AWARDS

Central Michigan University - College of Education and Human Services

2009, Honor Award, AIA Detroit

2010, Merit Award, American Society of Landscape Architects

2011, Green Building of the Year, CAM Magazine

2011, 1st Place Regional Technology Award for Outstanding Design Innovations and Successful Achievements, ASHRAE

Glen Oaks Community College - Science Addition & Allied Health Expansion

2008, Award of Honor, AIA Michigan

Jackson Community College - Information and Technology Center

2009, Honor Award, AIA Detroit

Lansing Community College - University Center

2009, Honor Award, AIA Michigan

2008, Award of Honor, AIA Detroit

Wayne State University - Education Commons

2010, Honor Award, AIA Detroit

2338 Coolidge, Berkley, Michigan 48072, p 248.336.4700, shwgroup.com

November Tech Program

LEED Plumbing [Green Plumbing Fixtures]



Jeremy Cantor has working been in the plumbing industry for the past six years. He is currently working as Delta Faucet's Regional Commercial Sales Manager. Prior to this, Jeremy was employed at American Standard.

Jeremy is a graduate of Ryerson University in Toronto, Canada. He has been a member of ASPE since working in this industry.

Jeremy's presentation will explore commercial products for plumbing. This presentation will demonstrate what to look for when specifying commercial grade fixtures. Topics will include standard fixtures and trim as well as electronics, water conserving, and healthcare related products. The overall intention of this presentation is to ensure that the specifying community has enhanced knowledge of commercial grade plumbing fixtures.

At Delta® faucet, we believe that there are better ways to experience water. This conviction goes beyond excellent design to incorporate smart thinking that anticipates people's needs. Our passion for this purpose has been evident ever since Alex Manoogian introduced the first washer less ball valve more than 50 years ago. The triangular cam of this breakthrough technology featured a unique ball-valve design; providing the inspiration for Delta Faucet Company's name and establishing Delta as an industry innovator.

For more than 50 years, Delta has continued to lead the industry in the development of products and technologies that change the way people experience water. Our technologies include MagnaTite® magnetic docking spray wands that stay in place, to Touch20® Technology faucets turned on or off with just a touch making life easier when your hands are messy, to DIAMOND™ Seal Technology valves that help the faucet last up to 5 million uses—Delta faucets incorporate thoughtful features that delight the customer. When paired with beautiful, inspirational design, it's easy to understand why Delta is more than just a faucet.

NEWS

Med Gas Installers Certification - Most member's Installer's certs will expire before the next Med Gas Standard is issued in 2012. Before your Installer certification expires, you need to apply for an extension with NITC. Extension forms available at the Hall and the Training Center.

Past President Report

John Nussbaum, IPP, FASSE



"ALERT" Plumbing Industry Professionals **Contractors** who employ local 98 plumbers who are Med Gas Certified Installers, please be advised that most installer's Certifications will expire before the next Med Gas Standard is issued in 2012. Before their Installer Certifications expire they must apply for an extension with NITC. Extension forms are available at the Hall and the Training Center additionally you may go to the ASPE EMC website to locate an extension form by following this link, [http://.aspe.org/Eastern Michigan](http://.aspe.org/Eastern_Michigan). This link IS case sensitive.

2012 NFPA 99's risk vs. occupancy-based approach begins a new era in health care safety! The new NFPA 99 2012 edition of Health Care Facilities Code is the Standard that is replacing the 2005 99 C that you are currently under in Michigan. I have been advised by NFPA that the 2005 99 C is no longer in print. I have brought to the attention of the ICC people, that they have referenced a non existing standard (99 C 2010) in their codes and that the 2005 99 C was no longer in print. After discussions over three days, the concerned parties agreed that a breakdown in communication had taken place and that NFPA and the ICC people were working together to resolve the existing problem. I am hopeful that this will take place before the end of the year. This is the reasoning for the extension with the NITC. I will continue to keep Bob Konyndyke and you informed, of any developments relayed to me from the respective code and standards organizations.

The Fall NFPA Catalog pictures the new health care resources now available to you with pictures and explanations of their contents.

1. **NFPA 99 2012 Edition Health Care Facilities Code** Including all Gas & Vacuum System Requirements.
2. **Medical Gas and Vacuum Systems Installation Handbook** 2012 edition.
3. **NFPA 99 2012 Edition Health Care Facilities Code Handbook**



I have copies in my office if you wish to thumb through them.

continued on page 5

From Joe Hernandez

continued from page 1

show, George Johnston will be selling raffle tickets to win the water heater. The winning ticket will be selected at the December general membership meeting. Oh, you don't have to be present to win of course. It does make a great Christmas present!!

I have an announcement to make, we are quite proud that the Eastern Michigan Chapter has become an official affiliate of the Engineering Society of Detroit. Our membership was unanimously approved at the last ESD council meeting. We and our membership are entitled to all the member benefits that go with a general membership. We will be hosting the ESD and several of their functions in the near future. One such function may very well be a review session for the Engineering FE/PE exam.

The chapter has been recognizing the legacy Detroit AE firms and the more recent AE firms of Michigan. This month's Detroit suburban AE firm is SHW Group of Berkley (see page 2). They are a national AE firm, with offices throughout the country. You can visit their website at shwgroup.com.



KEVIN RETTICH

Allow me to introduce Kevin Rettich, the MEP leader with SHW of Michigan. Kevin Rettich, PE, LEED AP, is the MEP Group Leader and Principal for SHW Group. He has over 25 years of experience in engineering systems design, including major educational projects. His leadership provides vision and innovation for the MEP engineering group, and the firm, including the development of

building information modeling as a design and quality control tool, managing the relationships with clients and staff and supporting multi-disciplined collaboration committed design excellence. He is an expert in the design of power distribution systems, lighting, emergency lighting, technology systems, security, fire alarm systems, emergency and standby generators. Kevin is a LEED Accredited Professional and works with the design team to develop sustainable energy solutions that can provide significant cost savings for the client in flexibility, operating costs and long-term occupant satisfaction. Kevin is a graduate from The University of Michigan, Dearborn, with a Bachelor of Science in Electrical Engineering. He is a registered engineer in 48 states including Michigan and is a Certified Lighting Efficiency Professional and a Certified Lighting Consultant.

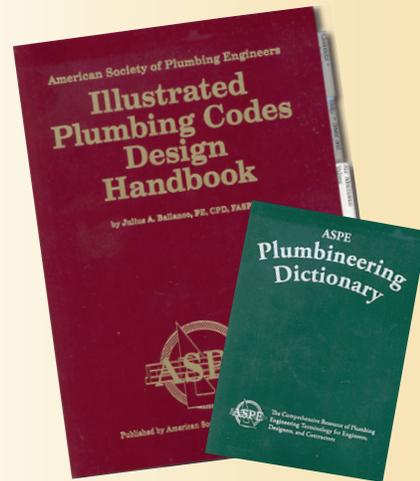
Your president

Joe Hernandez, CPD

A Special Word

Our warmest condolences to Ginny Corpt and to Dann Holmes along with their families during their difficult times.
Dann Holmes is an ASPE EMC Liaison
Ginny Corpt has been the caterer for ASPE EMC for 15+ years.

These two books are included with a bundle at your local chapter at a price you can afford.



Contact John Nussbaum @ 313-341-7661 ext. 211 or email jnussbaum@mcadetroit.org

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Affiliate Liaison Report

Dann Holmes



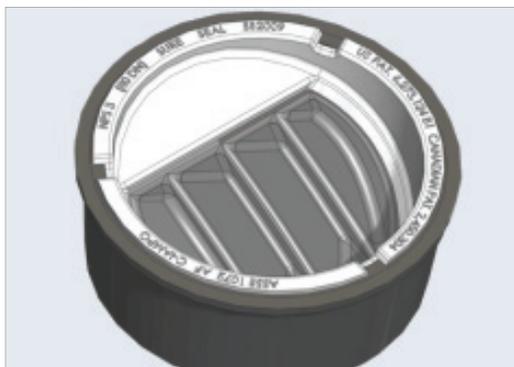
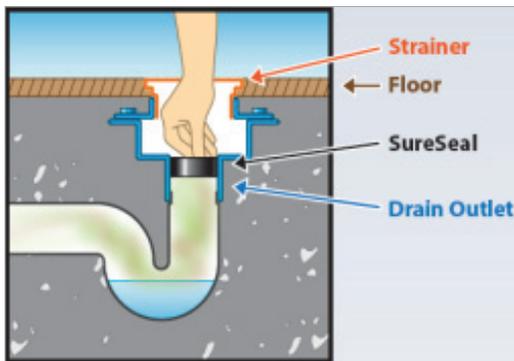
As my articles evolve, I'm going to spotlight the products and sponsors who support our Chapter as best I can. Obviously, any and all questions and technical information should be directed to the specific manufacturer or their rep agency whose products are covered. Not me, unless it's a product I represent. My reasoning for this new direction is so that

any company thinking about sponsoring a tabletop, including our plumbing & mechanical wholesalers will get print time too! How's that for an added bonus to the time & money you spend with us? In no way do I want to take away from an opportunity for you to buy ad space from our Chapter.

The ASPE EMC Board thanks George Johnston, President of Balfrey-Johnston, for their tabletop sponsorship in October. It was a last minute decision by him and greatly appreciated by us. George took the bull-by-the-horn, set his display up right next to our sign-in table and pushed his product. That's how a vendor gets his products introduced, seen and introduced! I wished I had thought of that. I have a feeling many of us will be following George's lead. We may want to consider setting up the room differently for meetings and of course, returning it as we found it before we leave.

George was kind enough to send me information on his new SureSeal® Trap Seal product. This is a hint to those who will sponsor us in the future.

SureSeal offers the following advantages:



continued on page 10

Past President's Report

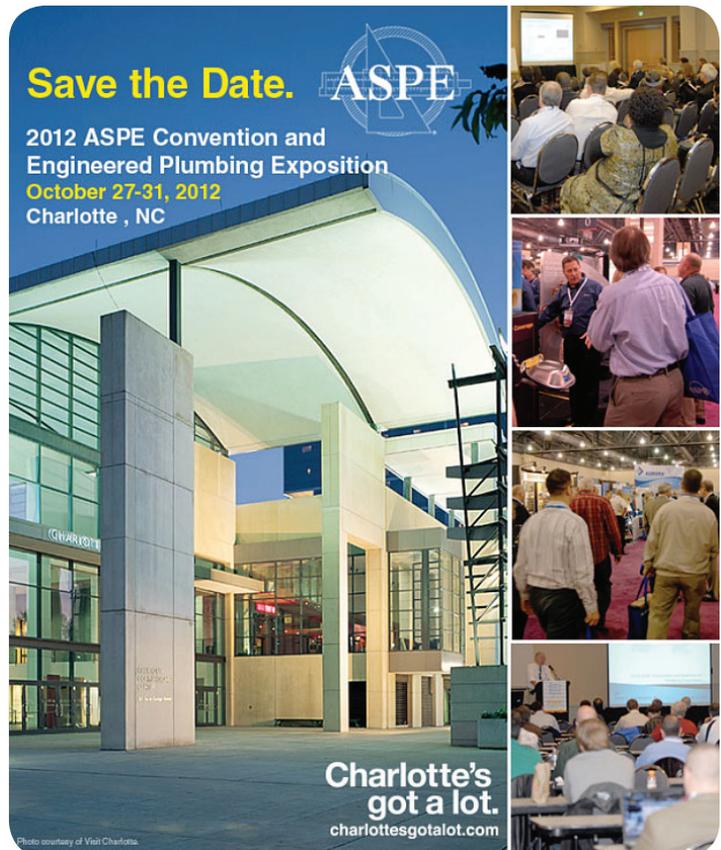
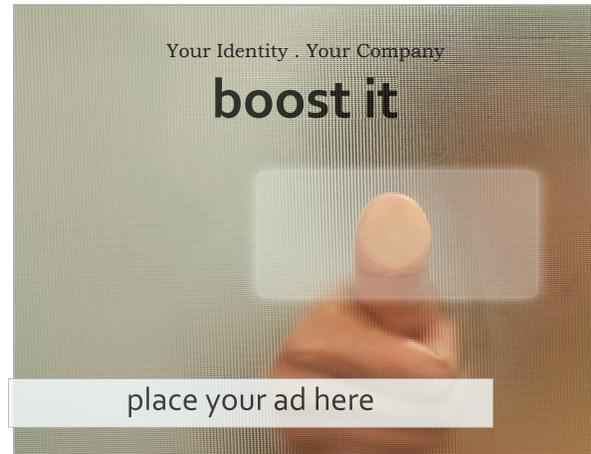
continued from page 3

I would be more than glad to place your orders under my membership to get you the member pricing. Call me, John Nussbaum at (313) 341-7661 ext. 211 or Cassandra Mudloff at MCA. Detroit (313) 341-7661

Again remember, we are still on the 2005 NFPA 99 C here in Michigan. The International Code Council (ICC) needs to adopt the NFPA 2012 99 Edition Health Care Facilities Code prior to the State of Michigan.

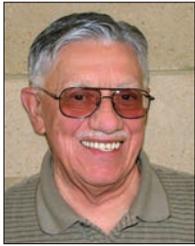
Sincerely,

John R. Nussbaum, IPP, FASSE



VP Technical Report

Edwin Hawley CPD



Design Class, Tuesday October 18th, 2011

Topic: "What's wrong with Our Drawings?"

Panel Moderator: George Dobrowsky,
a Director of Technical Estimating for
Walbridge Inc.

Fellow Panel Members:

Tom Allard, John Green Co.
Esteban Cabello, PE, CPD, JRED Engineering, Inc.
Scott Morgan, PE, SHW Group
Barry Pines, CPD, C&R Plumbing (estimator)
Wayne Robinson, Chief Plumbing Housing For City of Detroit

The panel got into the subject after the introduction. During the introduction it was asked that the group, including the audience, provide input. However, to provide you, the reader, with the complete lines of questions and comments that were discussed, it would take a federal court type of report, which is not very

practical at this time. So, I will go with an actual type of scenario, which takes all the discussions, questions, and comments into the following conditions and I will build a complete picture for the reader that way.

An Architect releases a set of plans to all the various trades for their designs and all of their inputs. The Engineer, or a designated individual, begins his trade design and layouts. They will check the specifications, usually the CSI format, selecting all the applicable divisions, sections and paragraphs and may then add special requirements, values, sizes and performance criteria for an approved vendor and/or manufacturer and will provide the special specification section on all shop drawing requirements.

Many of the present jobs have the requirement of a Building Commissioning Report. This will provide documented confirmation, that building systems function, according to criteria set forth in the project documents. This is to satisfy the owner's operational needs. A select group of engineers representing the owners, review, test, observe, determine and check all operations and will then follow up on performances of all equipment and items. Their report is a certified record for the owner, a record of all products and all equipment that can and will deliver as designed.

(Continued on page 11)



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Photos from October 18, 2011
Program: “What’s Wrong With Our Drawings?” Panel Discussion

A BIG THANK YOU TO OUR MODERATOR AND PANELISTS.



(L to R) Panel:

Wayne Robinson, City of Detroit; Barry Pines, C&R Plumbing;
 Scott Morgan, SHW Group; Moderator-George Dobrowitsky, Walbridge;
 Tom Allard, John E. Green Co.; Esteban Cabello, JRED Engineering



Wayne Robinson, City of Detroit; Barry Pines, C & R Plumbing



(LtoR) Panel: Scott Morgan, George Dobrowitsky,
 Tom Allard, Eseban Cabello



Plumbing Industry Training Center - Classroom



Plumbing Industry Training Center - Classroom



Plumbing Industry Training Center - Classroom

SPECIAL THANKS TO OUR SPONSOR GEORGE JOHNSTON, BALFREY & JOHNSTON (NOT PICTURED)!

* All photos courtesy of Cindy Zatto

Affiliate Liaison Report

continued from page 6

Application

- The SureSeal Inline Trap Sealer can be used with all 2", 3" and 4" floor drains and in 3-1/2" and 4" floor drain strainers. Examples are shower drains, outdoor drains, basement drains, water heater drains, HVAC condensation drains, maintenance areas, floor/mop sinks, residential bathrooms, under kitchen sinks, apartment and condo bathrooms (providing tenant separation for water, as well as fire) and other applications.
- The SureSeal Inline Trap Sealer can be used for retrofitting, with its variety of designs ensuring compatibility with all other drantypes

Performance

- The SureSeal meets the stringent new ASSE 1072 plumbing code standard for all floors and all floor drain flow rates.
- Patented engineered design creates no effective restriction on water flow.
- Every SureSeal product meets or exceeds all code requirements.
- SureSeal blocks dangerous and noxious sewer gas emissions from backing-up into living or working areas.
- SureSeal's Space-Age elastomeric neoprene material has been proven in plumbing industry uses for forty years and has been used in non-plumbing critical applications for almost fifty years of continuous use without degradation.
- Successfully tested with common cleaning solutions and other chemical approved from drain disposal.
- Functions despite lodging of common debris (mop strings, food residue, etc.)

Inspection

- Only requires a simple inspection by viewing with a flash light
- All parts accessible after installation

I look forward to seeing everyone at our next ASPE EMC meeting held off-site at MASCO on November 8th. You can be sure I'll be giving their Delta products time in my next article. When a company sponsors 75 dinners for our members and their guests, you should make the effort to see them in person.

As always, I can be reached via e-mail at dann.holmes7@gmail.com or by cell phone at (248) 939-2476.

Thank you,

Dann Holmes

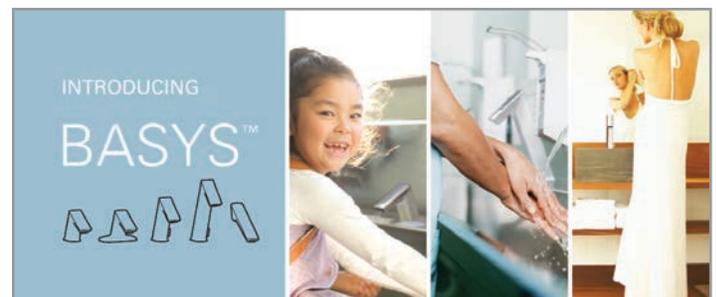
A wise man/woman learns from the mistakes of others. Nobody lives long enough to make them all him/herself.

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▶ **What do the Beach Boys, Mickey Mouse, and T&S low-lead faucets have in common?**



▶ They all got their start in California, and they all swept the nation. Although California led the way with the AB1953 legislation mandating low-lead faucets, it's only a matter of time until they are required in all states. And T&S is ready — all of our faucets are low-lead compliant and are available across the country. And, as always, T&S faucets are as rugged and reliable as they come, and meet the requirements of the Buy America Act. Contact your sales rep for more information.

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VP Technical Report

continued from page 6

The designer will spend some time on special process requirements. They will then go to the Cad Library, and begin selected standard details, diagrams, and sketches, to compile these and make copies of them for a detail drawing sheet. He/She may have to design their own special required detail for the set of plans for this project with layouts of all the piping systems. They will make all the calculations for sizing. After all Cad work is finished regarding the design of the plans, they must be coordinated with all major components. They should be reviewed so that all the layouts, specifications and all other important data are completely indicated.

In the allotted time frame, the trades' people shall deliver the completed packages. They are passed to the Architect and signed off. The Architect assumes that all of the Trades have submitted complete documents, combining all the essentials for the completed packages before releasing them out to the general and or designated bidders.

The project is announced and various bidders put their money down for the complete set of plans. The bidder's fee will vary upon the size of the documents. These fees are returned if the bidder returns the originals if not used.

The plans go to the municipalities for their reviews and approvals. The bidders now are very busy studying and familiarizing themselves with the project. The awarded bidder gets three sets of plans and three additional sets go to the approving department for the associated municipality. One set or more are returned to the Architects with all the stamped approvals and signatures.

The plumbing bidder is now gathering data and compiling a list of materials, components, piping, valves, fixtures, and other parts needed to develop a cost. Any special items will require various telephone calls to vendors, manufacturers and suppliers. The plumber will compile numbers that can be assigned factors that are individualized, enabling the ability to add labor cost for each.

In the study of plans we find missing data, incomplete drawings, missing parts, and many other problems. The Architect plans are incomplete. Why? The plans could become incomplete because the owners continue to make changes to the project. Take the Cad Library - standard detail, it was just copied verbatim, but the specifications spell out that the nozzles on the large vessel are of a larger size. Pumps need a larger head loss than shown on a diagram and the drawing schedule. Pump header and other piping sizes don't agree.

The only real salvation is that the Plumbing and Mechanical Estimator is experienced and had done other jobs of similar types and requirements. The owners all will complain about all the extras, bulletins and delays to the schedule, etc. The general contractor begins to get a large headache from this project. It is beginning to slowly lose money and may not be completed by the date promised.

You can tell a bidder to cover all the basics with a qualify-

ing statement, complete list of items, and all necessary costs. The whole document is like having a good fortune teller as a buddy, looking at the globe and seeing all. No problem, you could just as easily shoot yourself in the foot, for thinking you can outguess the unknown condition that can occur like missing the main requirements of the whole project. The only option left is to bid the documents for what they show and make all your money on the extras and scramble a little, hoping for the best. I have seen it done both ways however; I would follow all the other contractors' methods, bidding on the documents for all the things shown, making your best estimate to get this project and keeping a record of all the omissions, errors, and any other data you can compile, for the future negotiations. Good Luck.....

"What's wrong with our Drawings?" I believe that we must take a step back and review HOW we design our documents. That being said, some of the check and balances are going have to be revisited. Cad operators must follow basic criteria, like checking for completeness and not trusting the computers will properly fill in all the blanks spaces you leave up to the software. If the work was done by hand (2D), you would have seen the paper directions and elevations. 2D is very good for most experienced designers. I have found in my previous experiences, that you cannot make enough sections through the trusses. Label it with zones for all services, piping, ductwork, electrical conduits, tubing and trays. Also the field people in charge need to control contractors working with the attitude that "I'm the first one here, I will take the best route for my working space and screw the other guy". The field supervision person is the most critical person for the success of the project, by keeping it on schedule and completing it on time.

Trained personal will have great positive impact on the project if they are able to follow the documents, meet with the contractor personnel, foreman, group leaders, etc. and keep them on track by being available to answer any and all questions. Additionally it is helpful to keep good paper work and demand that the contractor's people do the same, enabling for a smooth running project, and having fun while doing it.

We had an excellent turnout for the October's meeting; let's follow it up with the Tuesday, November 8th, 2011, At the MASCO headquarters, in Taylor, Michigan.

I hope to see you all, there!
Edwin Hawley, CPD

JRH's Barrier Free Design Manual

JRH's Barrier Free Design Manual has been discontinued. The State of Michigan's Barrier Free Division stated they are currently using the **American National Standard ICC/ANSI A117.1-2003 Accessible and Usable Building and Facilities 2003**. Code language, graphics and measurements are in inches and metrics. You may order this book through the Code Study and Development Group of SE Michigan. Contact Cassandra Mudloff at 313.341.7661 ext. 205, fax 313.341.1007 or email cmudloff@mcadetroit.org. If you have code questions, call John Nussbaum at 313.341.7661 ext. 211.



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bpines@cr-plumbing.com

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31758 Edgeworth Dr.
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(248) 588-8741 Fax: 577-0104
johnsnnyder@wowway.com

Corresponding Secretary

George Johnston II
Balfrey & Johnston, Inc.
P.O. Box 37317
Oak Park, MI 48237
(313) 864-2800 Fax: 864-7219
george2@balfrey-johnston.com

Administrative Secretary (Imm. Past President)

John Nussbaum, FASSE IPP
MCA Detroit
14801 W. Eight Mile Road
Detroit, MI 48235
(313) 341-7661 Fax: 341-1007
jnussbaum@mcadetroit.org

Director

Jeremy Brown
NSF International
789 N. Dixboro Rd.
Ann Arbor, MI 48105
(734) 769-5196 Fax: 827-7129
brown@nsf.org

Director/ Chapter Affiliate

Dann Holmes
Viega
E Greenmeadow Circle,
Farmington Hills, MI 48334
(248) 939-2476 Cell
(248) 616-4099 Office
dann.holmes@viega.com

Director/ Chapter Affiliate

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

Newsletter Editor

Theresa M. Green
14801 W. Eight Mile Rd.
Detroit, MI 48235
(313) 341-7661 Fax: 341-1007
tgreen@mcadetroit.org

MASCO Corporation

21001 Van Born Road - Taylor, MI 48180



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