

ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

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Vol. 12, Issue 10

HAPPENINGS

Michigan Appointments to ICC



Barry Pines

Barry Pines of C&R Plumbing has once again been appointed by the International Mechanical/ Plumbing/ Fuel Gas Code Council as a member of the International Residential Code-Mechanical/ Plumbing Committee (IRC-MP). **Barry Pines** has also been appointed to the

ICC Residential Code Interpretation Committee (RCIC) for the upcoming 2009/2010 Code Development Cycle. The following individuals have been reappointed/ appointed as a member of the International Plumbing Code Committee (IPC): **Robert G. Konyndyk**, Chief, Plumbing Division, Bureau of Construction Codes; **Paul Bladdick** representing the Code Study & Development Group of South-eastern Michigan; and **Jeremy Brown**, Codes & Regulatory Manager of NSF Intl. **Mark Riley**, Inspector Supervisor for the City of Troy, Michigan has been appointed as a member of the ICC Mechanical Code Committee. All appointment terms are effective July 1, 2009 and ends December 31, 2011.

.....
Dave Jones, CPD LEED AP, of the John E Green Company and member of the Michigan Plumbing Board has started a website which includes a blog with updates on various plumbing issues brought up at work and with serving on the State Plumbing Board. They are looking for input on a couple of issues. Please checkout the site and blog at <http://www.michiganmasterplumber.com>

.....
Did you know you could get the latest issue of *Code Works!* (formerly known as *The Bulletin*) on the BCC website at www.michigan.gov/bcc posted on the Publications-Bulletins-Interpretations-Advisories page. (dj)

PRESIDENT'S REPORT

John R. Nussbaum, IPP, FASSE



ATTENTION members and owners of A&E firms, and plumbing and mechanical contractors with engineering department heads and managers:

As the 2009/2010 President of the Eastern Michigan Chapter of the American Society of Plumbing Engineers, it is my pleasure to invite you and your company employees to what will be an exciting educational program year.

The 2009/2010 meeting nights will be held on the third Tuesday of each month beginning in September

2009 and ending in May of 2010. These meetings will be held at the Plumbing Industry Training Center in Troy, Michigan. If you or your firm wishes to put on a program of your own for *your* employees prior to our normal dinner meeting on a meeting day, it can be arranged by calling John Nussbaum at (248) 866-1400.

The 2009/2010 year will feature plumbing and mechanical design classes inclusive of CPD Exam preparation. These are hands-on exercises for the attendees to do in class. Calculators can be used during class. These classes will start at 3:30 PM and end at 5:30 PM in time for a catered dinner and the evening program. Dinners are provided for members or invited guests of our manufacturers' representatives. Once again we are providing basic classes of plumbing and mechanical engineering for the newcomer or persons needing to improve their skills. Manufacturers' representatives will also be presenting

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J. Norman Parks, CPD, CET, Vice President, Technical for the Society, passed away on May 10, 2009. Julius Ballanco, Society President, wrote a tribute to Norm in his May 2009 column, which included condolences from Society members.

On behalf of the Eastern Michigan Chapter of ASPE, we too mourn the untimely death of Norman Parks. Our thoughts and prayers are with the family and close friends and relatives and above all his chapter. Norm will surely be missed as VP Tech on the board of directors, and by us, the chapter presidents. May he be in peace in heaven for we will never forget him.

*Johnny Nussbaum, President
Eastern Michigan Chapter*

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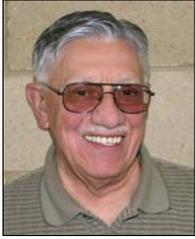


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VP TECHNICAL REPORT

Ed Hawley



The scheduled program speaker for May had unexpectedly taken ill and our gracious supporting vendor, Dann Holmes of VIEGA, came thru for the Chapter with flying colors. He suggested a different topic, “FOG”, the acronym for Fats, Oils and Grease. The system presented, called FOG Eraser and in use since 2003, is manufactured by *PMC Environmental Technologies LLC*, a Michigan based compa-

ny. The newly developed technology is an onsite bio-reactor that treats the wastewater from restaurants prior to discharge into the sewer system. The FOG Eraser Technology was granted U.S. Patent # US 7,182,859 B2 in 2007.

The *PMC* company presenters, Ronald Panter (CEO and co-inventor), Ted Kramer (Sales and Marketing), Jeffery Ostahowski (Governmental Relations and co-inventor), Thomas Herold (Engineering Manager), all having great backgrounds and experiences in their specific fields, make up the completely workable team.

The *point of source* elimination of fats, oils and grease from wastewater is the goal of the FOG Eraser. The environment is the greatest benefactor by the elimination of byproducts of any carbon chemicals. The main reason is due to the EPA ruling under the Clean Water Act of 2001 classifying FOG as a Class 2 Contaminant/Hazardous Waste, i.e. that land applications of bio-solid wastes from grease traps is no longer permitted.

This classification shift has dramatically increased the costs of grease trap maintenance and disposal. Even though a functioning grease interceptor that separates the bio-solids and a good maintenance program of cleaning and disposal will protect the public sewers, those in compliance represent a very small number of systems that prevent the FOG wastes from reaching the sewers. FOG is clogging and blocking more than 50% of the free area of all sewer openings nationwide. The Wall Street Journal reported that 75% of the sewer systems in the United States suffer back flow into homes on municipal sewers.

FOG also creates problems at the waste treatment facility with large amounts of sludge that disrupt the overall treatment operation. This problem has increased the pressure on all municipalities to remove the FOG from the waste water systems. Of the 300,000 plus grease interceptors in the U.S., only a very small percentage are properly maintained. This brings us back to the idea of the *point of source*. FOG is removed where it enters the system, by the digestion of the FOG, using the *nonpathogenic microbes* found in nature. This means no harmful chemicals or cleaners are used in producing treated “gray water” that is safe for the environment, thus eliminating the illegal dumping of the hazardous wastes.

What we learned at this seminar!

We watched a live demonstration of how the FOG Eraser changed the fats, oils and grease into a gray water liquid for discharging to the sewer. The FOG Eraser reduces the percentage of fats, oils and grease in the waste water to less than 1 tenth of 1 percent. The system is very “environmentally friendly” using the patented BIOS GT system to create the perfect environment for the microbes to thrive.

The moment the microbes are released they begin eating the FOG and replicating. No additional chemicals or nutrients are required.

This will present a win, win, win situation for all of the food service industry, event centers and institutions, by eliminating high maintenance and labor costs, damage to existing septic fields, and FOG-related fines. The local municipalities have recorded improved sewer flow downstream and have reduced capital costs (VAC trucks, etc.), maintenance costs and labor and code enforcement costs. Sewerage treatment is also more effective because the microbes continue to digest FOG on the way to the treatment facility, keeping the sewers cleaner. The microbes die off and become a carbon food source for the bacteria used at the treatment plant, again saving the cost of bacteria feeding at the plant.

About the SBIR, applications presently under a contract for the FOG Eraser studies: The purpose and intent of the Small Business Initiative Request (SBIR) study is to establish a new direction for the treatment of fats, oils and grease that can better protect our nation’s water resources. The SBIR is a Federal Government Grant Program. The study application could become the basis for a national change in the management of the FOG Eraser, providing data for the distance of the gray water effects on the sewer lines and show how it is controlling the fats, oils and grease flow. *PMC* has proposed an independent third-party evaluation for SBIR to be conducted by Dr. Michael Dybas, of Michael Dybas & Associates LLC.

Throughout the program presentation, the subject and speakers held the captive attention of the members and guests in the audience, from beginning to end. It produced many good and solid questions for the speakers.

This presentation was also of major interest to the plumbers and addresses many key issues, touching upon hot topics for individuals involved in the construction industry. First, it had the latest technology. Secondly, it could be classified and labeled as a GREEN subject. Thirdly, it could provide a company field work. Fourthly, it’s a chance to be on top of your field of work and earn more income. In today’s world we all need to be very diligent. So Ladies and Gentlemen, please do yourselves a favor and come to the best 3 hours of any evening. Sorry if you missed this good educational and rewarding seminar. I would like to remind everyone of the efforts and time spent by the board and other volunteer members to research, find, contact, and make arrangements—all done almost one year ahead—so there are vital, interesting and timely programs for the membership. Therefore, come join your ASPE partners, your competition, and acquaintances in the great business of plumbing. Thank You.

We would like to thank our tabletop sponsor, Dave Watson & Associates, represented by Rick Johnston.

This meeting had 31 members for dinner catered by Ginny. Thank you, Ginny, for the delicious dinner.

This was the last General meeting of our calendar year 2008-2009. We hope to see everyone back for the all new and exciting programs next fall in the 2009-2010 calendar year.

*Ed Hawley
VP Tech*

President's Report

continued from page 1

classes from 3:30 PM to 5:00 PM on new products, methods and engineering data to keep you informed on changes in the plumbing and mechanical industry.

This year's programming is LEED and Green intensive to keep you prepared for what is coming in water and energy conservation in existing commercial and industrial buildings. Our ASPE/ASSE hosted meetings draw the design professionals, plumbing and mechanical engineers, specification writers, journey and master plumbers and code officials. Education is *key* to everyone in the piping industry; CEU credits will be available to attendees for this year's programming. Our manufacturers' representatives welcome your attendance at these meetings.

The programming is planned to adjourn between 8:00 - 8:30 PM. Look for the brochure in August, which will give you the syllabus of our 2009/ 2010 technical programming, including bios of guest speakers and presenters. I am sure you will find educational topics pertinent to your every day design application needs.

I am looking forward to seeing you and your employees at the meetings and hope the performance questionnaires will be filled out and returned with your comments and suggestions so we can honestly fulfill your expectations and needs.

*Your president,
John Nussbaum*

"Duct tape is like the Force. It has a dark side, it has a light side, and it holds the Universe together."

~ Carl Zwanzig ~

(No one seems to have any idea who Carl is (obviously, a Star Wars fan), nor why he's credited with this phrase - which has been quoted by literally thousands of people in the last fourteen years... but, here's to you, Carl Zwanzig for getting credited for the quote.)



Board members who will serve for 2009-2010 are as follows from left to right: Jeremy Brown (Director), Cindy Zatto (Affiliate Liaison), David Rhodes (VP Technical), Allen Verriest (Director), John Snyder (Treasurer), Rick Johnson (VP Membership), and John Nussbaum (President). Not pictured: Barry Pines (VP Legislative), George Johnston II (Corresponding Secretary), and Paul Bladdick (Administrative Secretary).

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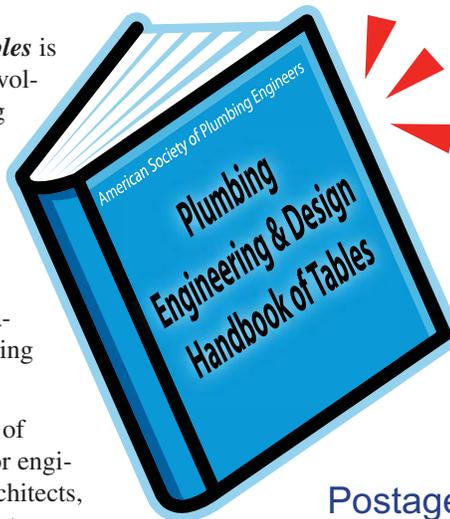
Virtually all engineers, designers and contractors have a plethora of books, from engineering texts and engineering guides to the Cameron Hydraulic Data book to the ASPE Plumbing Engineering Design Handbooks, just to name a few. In addition, there are various tables provided by every imaginable manufacturer, plus what is undoubtedly available on your computer—from manufacturer calculation programs to Excel calculation spreadsheets for the major equations used in the profession.

So why this book? Because like most engineers and designers, you enjoy the tactile feel of looking up data and information in a book, a book that can fit right next to you on your work surface and requires no starting of computer programs and choosing what might be needed. This book is the one you will always keep right at your your side for instant access to the everyday data you need.

The *Plumbing Engineering & Design Handbook of Tables* is a comprehensive reference tool that offers in one source volume all the equations, sizing tables and other engineering and design tables used by plumbing engineers, designers and contractors on a daily basis. The book includes applicable tables and information from the major plumbing codes and standards used throughout the U.S.

This unique book is a collaborative effort of plumbing engineers and designers. It provides the data and information used every day to engineer, design and install plumbing systems.

The handbook (6" x 9", with approximately 2,400 pages of equations and tables) is a working guide and reference for engineers, plumbing system designers, plumbing officials, architects, plant engineers, inspectors, journeymen, students, contractors, builders, and all those associated with the plumbing and contracting industry. It provides data and tables in an easy-to-use and understand format.



INSIDE *Plumbing Engineering and Design Handbook of Tables*:

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- 02-Hazen Williams Equation: Tables
- 03-Darcy Weisbach Equation: Tables
- 04-Fixtures-Drains-Vents Tables
- 05-Cold Water Systems Tables
- 06-Domestic Hot Water Systems Tables
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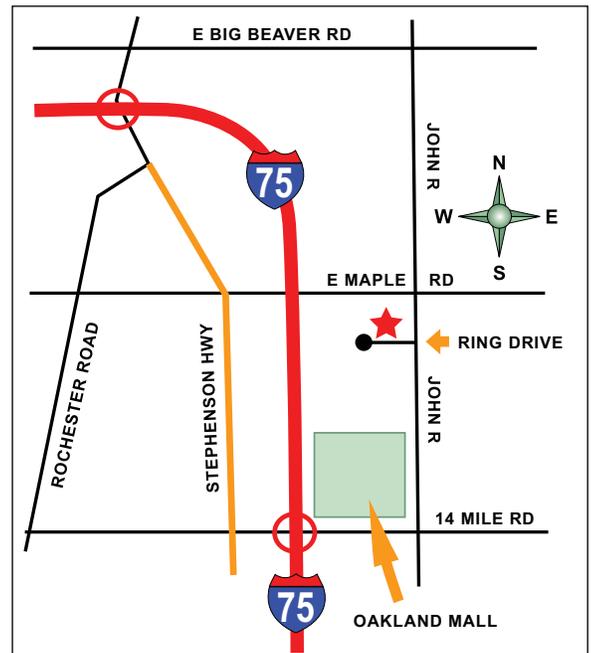
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