



SEPTEMBER 2011

NEWS

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

Serving our membership since 1975

Vol. 15, Issue 1

Plumbing Design Classes

Date: Tuesday, September 20, 2011
Where: Plumbing Industry Training Center
SEE map on back page

ASPE CPD/CODE Class
VENDOR CLASS
4:00 - 5:30 PM

DINNER
5:30 - 6:00 PM

Cost: ASPE, ASSE, MBPA Mbrs: NC
 Non-members: \$18.00 FOR DINNER

DESIGN CLASS
6:00 - 8:00 PM

Topic: Building Information Mgmt.
 BIM - More Than 3D

Speaker: Dave Jones & Gary Stephenson
 John E Green Co.
See page 3 for program & bio

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

Correction: George Dobrowsky was misspelled
 in the mailed Program Publication.

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From Joe Hernandez, CPD President Of EMC ASPE



It has been over six years since I have officially served on the Board of Directors of the Eastern Michigan Chapter of ASPE. My first duty is to thank John Nussbaum for all his dedication and perseverance in keeping the reputation of this great chapter among the best. When I was asked to take the presidency, truth be told, I had to think very hard about if I wanted to take on the rigors of such an important post. After a mountain of pondering, I thought, absolutely! This is

a great chapter and I welcome the opportunity to contribute to its success.

The summer workshop fostered a number of terrific ideas and a solid line up of programs and technical sessions. There is also going to be a shift to a paperless newsletter. The tech-sessions cover everything from "Green-LEED" plumbing to a segue topic on "Geothermal design". Want to get out of the house and see how the big-boys play, well, I mean engineers? How does a University of Michigan "Nano-Technology Lab" field trip sound? We are also going to visit the MASCO industries facility where the discussion on green plumbing will be presented. Prior to this tech-session you will be allowed to tour and witness the private art collection of the Manoogian family. There will be several panel discussions on "Smart pumps" and the ever confusing thermal-mixing valve (ASSE 1071 etc.).

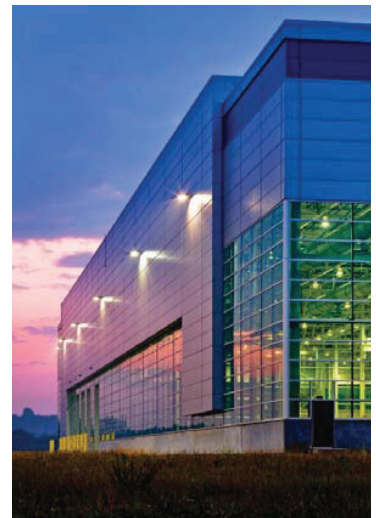
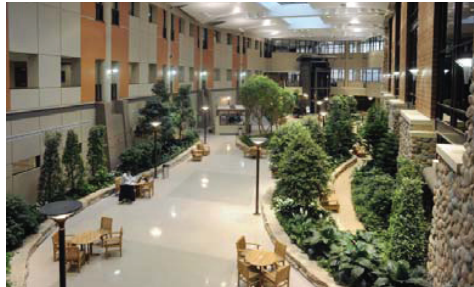
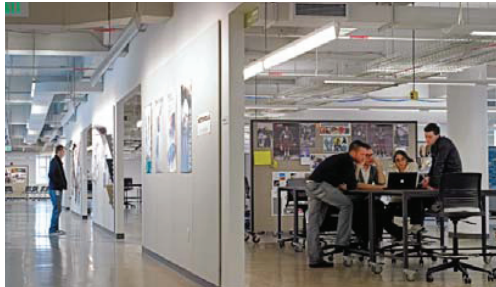
We will be introducing a contest in our October E-newsletter where there will be two photos of a mechanical – plumbing installation. The photos will be identical with one exception, one photo will be altered, such that 10 items will disappear. You will have to determine those items, record and submit them, with the successful entrant locating all ten items the winner. The winner will receive an ASPE plumbing design wheel (Domestic Water). Details to follow!

It is my privilege to recognize one of the finest AE firms in the state of Michigan. A feature page has been added to our E-newsletter for viewing. The director of the Mechanical department is Mr. John Cole, PE, LEED AP. He graduated from Rensselaer Polytechnic Institute with a Bachelors of Science in Mechanical Engineering, and is registered as a Professional Engineer in Michigan, Oklahoma, Tennessee, and Wisconsin. He is also a member of several professional organizations. Since joining Kahn in 1979, Mr. Cole has engaged in a number of initiatives to improve Kahn's operations and corporate culture. Further, he has applied seasoned expertise that has earned him increasing leadership within the firm As a Senior engineer, he has served on many of the firm's complex projects. As Kahn's Director

continued on page 4

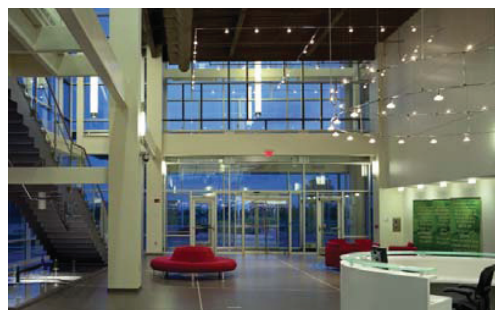
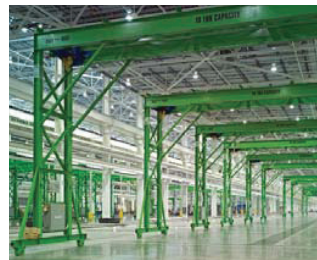
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September Tech Program

Building Information Management - BIM

More Than Just 3D



Dave Jones began his career in the plumbing industry over 30 years ago after working a summer job as a laborer and subsequently deciding to leave the pursuit of a liberal arts degree from the University of Michigan. He began doing residential service work, worked in a mechanical contractor's warehouse,

completed a plumber apprenticeship program and worked in the field as a journeyman and foreman. For the last 23 years he's been in the office of the John E. Green Company with responsibilities that have included coordinating and designing plumbing, fire protection, and HVAC systems, estimating, project management, and is currently the Branch Manager of John E. Green Company's Ann Arbor Office. Recent completed projects have included hospitals, laboratories, university buildings, waste and water treatment plants, and residence halls. Dave has been a member of the State of Michigan Plumbing Board since 2006, representing licensed plumbing contractors who hold master's licenses and was named the ASSE/ASPE Michigan Chapter, Engineer of the Year for 2009-2010. He is Chapter President for the Greater Michigan Chapter of the National Certified Pipe Welding Bureau, a member of the local Joint Apprenticeship Committee, is a voting member of the ASTM B05 Committee on Copper and Copper Alloys and is also a member of ASME, AWWA, and NFPA.



Gary Stephenson has been using CAD to draw and model mechanical systems since 1989 and started with the John E. Green Company in 1994 to help develop the CAD department and coordination team. He manages all project coordination done out of the Ann Arbor office

and has coordinated projects for all of the other John E. Green branch offices. He was responsible for establishing common standards and practices among coordinators and implementation of the National CAD / BIM Standards and training within the office. He has completed BIM models for hospitals, laboratories, sports arenas & office buildings using AutoCAD, TSI, NavisWorks & other 3d software.

Past President Report

John Nussbaum, IPP, FASSE



Plumbing Industry Professionals; Dave Jones, CPD and Gary Stephenson of the John E Green Company will be sharing with you the latest in 3D modeling of buildings as part of the design and construction process (BIM) Building Information Modeling. Plumbing & Mechanical Contractors BIM is here now

and this program should be of interest to you, your project managers, designers and estimators. The attendees will benefit from seeing examples of actual construction projects and see how it has been used on recent jobs, the benefits derived by owners, engineer's contractors, project managers, estimators and your job foreman and installing plumbers. Dave Jones says there is a price to pay in its implementation but rather than fight the inevitable, embrace the possibilities! An article in ENR titled Use Contract Documents to Avoid BIM Discord ended with the following paragraph. - BIM has great potential. To make the best of it, the parties need to address the associated risk carefully in contract documents.

The Eastern Michigan Chapter of ASPE President Joe Hernandez and the Board of Directors working with the program committee have put together the 2011/2012 Plumbing Design ASPE Handbook Classes aimed at you the professionals of the Plumbing and Mechanical Industry and your employees. If you have not received a copy of the 2011/2012 Plumbing Design ASPE Handbook Classes let us know and we will make an effort to get one to you. They will also be available at the Plumbing Industry Training Center. This applies to member applications and literature as well. On receiving your copy of the scheduled meetings select the dates you will not want to miss and mark your calendars accordingly. Remember you asked for these programs and the Eastern Michigan Chapter has responded to your wants and needs.

Owners of Plumbing & Mechanical Contracting Firms who are engaged in design build contracting, have you encouraged your design personal, estimators, superintendents and foremen to attend the educational offerings and to become members of ASPE? Where those who can qualify to become CPD certified encourage them to take our CPD prep classes and take the exam. I suggest that it would be beneficial to have a copy of the CPD review manual available for reference should they want to keep current in the design details for interior and exterior plumbing systems.

Sincerely,

John R. Nussbaum, IPP, FASSE

HAVE YOU CONSIDERED TAKING THE C.P.D. EXAM?

New Certified Plumbing Designers

We would like to recognize and congratulate the following individual in Region 2 - Eastern Michigan Chapter for achieving the Certified in Plumbing Design (CDP) designation by passing this year's examination.

James Paschal, PE, CPD, LEED AP

From Joe Hernandez

continued from page 1

of Mechanical Engineering, Mr. Cole is committed to working closely with mechanical engineering staff to ensure the most suitable mechanical engineering design concepts, including energy conservation and recovery concepts, are applied to each project.

Lastly, I special promotion has been set for our chapter member to purchase those wonderful design books. We will be able to bundle them for some ridiculous prices. You will receive a notice on them soon. We have great program coming this year and I very excited to bring it and be a part of it!!

Your president,

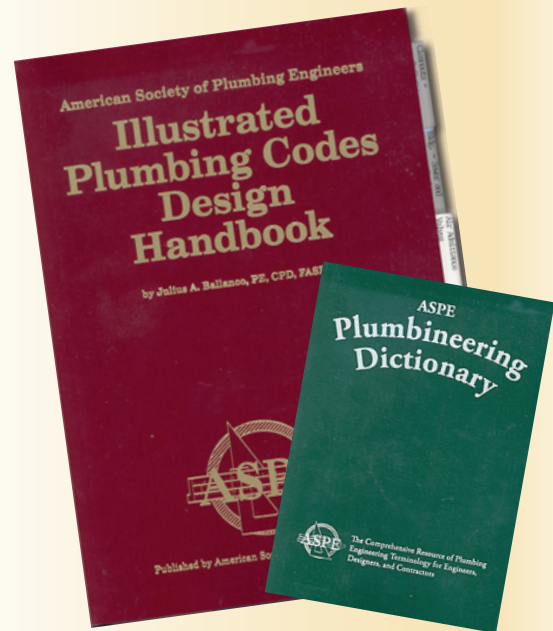
Joe Hernandez, CPD

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Mickey Mouse, and
T&S low-lead faucets
have in common?**



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Affiliate Liason Report

Dann Holmes



I'm writing to introduce myself to you, our ASPE EMC members, and to all manufactures of plumbing and heating products. My name is Dann Holmes and I'm in my 10th year working for Viega, the global leader in plumbing, heating and pipe joining systems. Along with my association with ASPE, I'm also an active

member of ASHRAE, ASHE, SMSHE and ASSE. I plan to write a short, monthly article in our newsletter, keeping manufactures up-to-date with events and opportunities and how we can help our engineering community, contractors, distributors and inspectors interact and share our expertise. With that said, let's get down to business.

This past June, I was honored to be nominated, and elected your ASPE Region 2 Affiliate Liaison. Truth be said, it was more like in the movie Animal House, I was standing in a line of reps and everyone else took one step back! I'm a slow learner, but I'm up to the task and now I'm asking for you to join me.

As manufacturers, it is our job to help support our plumbing industry. Yes, times are tough and budgets are nil, but this is when the tough get going. Oh no, Animal House déjà vu. I know you're all tough, I see it every day in the field. Let's use some of this energy to promote the growth and knowledge in our ASPE Eastern Michigan Chapter.

This year we will need more table top involvement, more ads, and more sponsorship along with more product presentations. With the agenda we have planned, each and every one of us can find at least one meeting to be heavily involved in. Bring your best foot forward, you know, the one you used to step back when we were in line, and let's set the bar a little higher this year for our plumbing manufactures, a level high enough that other ASPE chapters will try to outperform us. Remember, ASPE EMC members help those who help us. Get involved, be involved and be rewarded.

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

Respectfully,

Dann Holmes

New Board & Committee Chairpersons

Effective June 2011

See last page for new listings.

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VP Technical Report

Edwin Hawley CPD



Tuesday, June 21, 2011, the Design Class was a make-up class for Ingersoll Rand Industrial Technologies, Representative Jeffrey Gogas, Systems Engineer.

Topic: Compressed Air, Equipment and Selection, Design and Application.

His reference was to the "Compressed Air and Gas Handbook" by CAGI (Compressed

Air and Gas Institute). Web address: www.cagi.org.

A copy of the CAGI handbook was distributed to each lucky member in attendance, a wealth of data for their personal library.

The outline of this presentation was to identify all types of air compressors.

111. TYPES OF COMPRESSORS

- A. Positive - Displacement
(Intermittent - Flow)
 - 1. Reciprocating
 - 2. Lubricated
 - 3. Non-lubricated
- B. Rotary
 - 1. Sliding - Vane
 - 2. Liquid - Piston
 - 3. Straight - Lobe
 - 4. Helical - Lobe
- C. Continuous - Flow
 - 1. Dynamic
 - a. Centrifugal
 - b. Axial Flow
 - c. Mixed Flow
- D. Ejector
 - 1. Exhauster
 - 2. Thermo - Compressor

222. Typical Compressed Air Applications

- | | |
|---------------------|---------------------------|
| A. Power Tools | H. Instruments & Controls |
| B. Chemical Process | I. Spray Painting |
| C. Blow - Off | J. Pressure Actuators |
| D. Blast Furnaces | K. Air Motors |
| E. Soot Blowing | L. Agitation |
| F. Refrigeration | M. Gas Distribution |
| G. Vacuum | |

333. Rating Efficiency

- A. Reciprocating best
- B. Centrifugal almost as good in High Flow, And in moderate pressure ranges.
- C. Vane and Helical Lobe next.

444. Selection Criteria

- A. High Pressure - up to 20,000 PSIG
Must be Reciprocating
- B. High Volume, Low Pressure, say 150,000 CFM
At 30 PSIG, must be Dynamic (Centrifugal or Axial).

555. Typical capacity ranges

- A. Reciprocating - up to 10,500 CFM.
- B. Vane - up 3,700 CFM.
- C. Helical Lobe - up to 20,000 CFM.
- D. Centrifugal - 5,000 CFM.

666. Drives

- A. Electrical Motors
- B. Internal Combustion Engine.
- C. Gas Turbine
- D. Steam Turbine
- E. Reciprocating Steam Engine.

777. Capacity Control

- A. ON - OFF with Receiver storage.
- B. Unloaders (Reciprocating Type).
- C. Throttling of inlet, Exhaust, Recirculating (Vane and Lobe types).
- D. Pre - Rotation Vanes (Centrifugal Type).
- E. Variable Speed (Applicable to all).

888. Unit Cooling

- A. Cylinder / Case Cooling.
- B. Intercooler
- C. After Cooler
- D. Induction Air Pre - Cooling
- E. Oil Cooler.

999. Cooling Media

- A. Air (Finned)
- B. Water (Jacket, Shell and Tube)
- C. Refrigeration (Air Inlet)
- D. Water Spray (Injected in Gas)

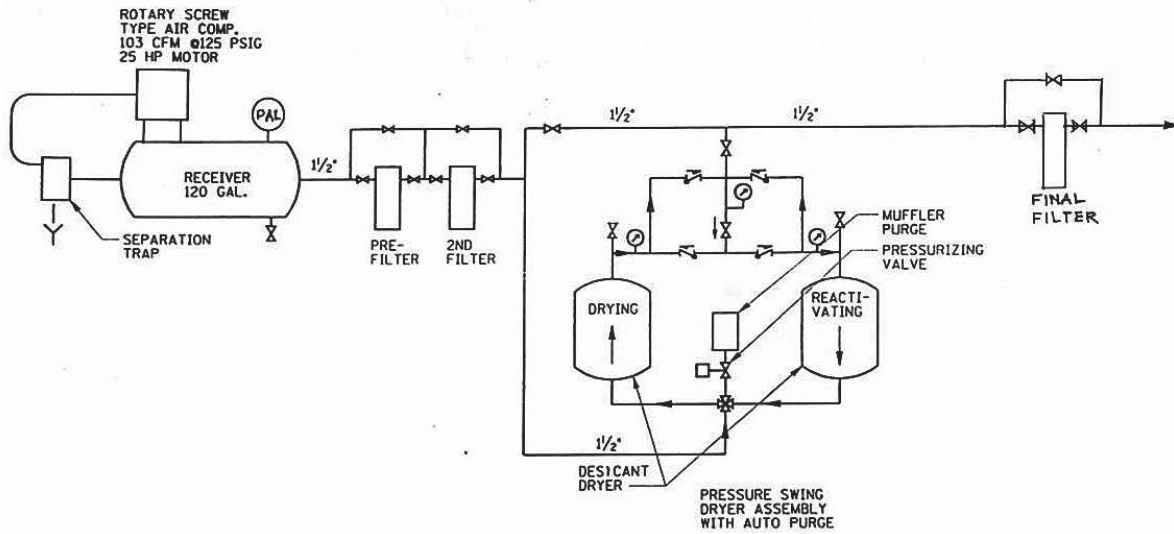
101010. Accessories

- A. Intake Filters
- B. Silencers - Intake and Discharge.
- C. Receiver Tanks
- D. Oil removal Filters
- E. Particulate Filters
- F. Dryers
 - 1. Refrigeration
 - 2. Deliquescent
 - 3. Desiccant, Cartridge Type
 - 4. Desiccant, Refrigerating Type
- G. Moisture Separators
- H. Condensation Traps and Drainers
- I. Foundations
- J. Vibration Isolators
- K. Pressure Regulators
- L. Lubricators
- M. Recuperator (with Chiller Dryer).

111111. Typical Projects

- A. Large Centrifugal Plant Air Compressors.
- B. ASCS Spray Dryer Air Compressors
- C. Receiver Mounted service air compressor
- D. Pneumatic Control Air Compressors.

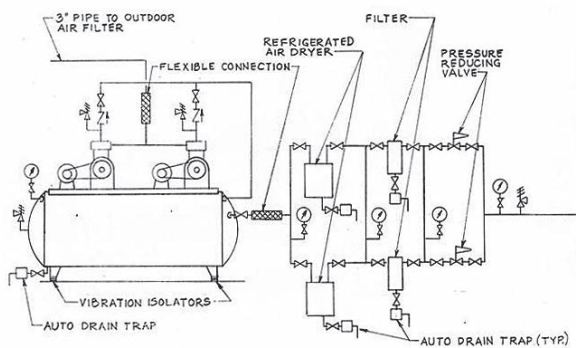
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COMPRESSED AIR PIPING SYSTEM
NO SCALE

121212. Sample Diagrams

- A. Lab Air / Service Air – MSU Anthony Hall.
- B. Pneumatic Control Diagram – MSU Anthony Hall.



TANK MOUNTED DUPLEX AIR COMPRESSOR
FOR HVAC PNEUMATIC CONTROLS

PROJECT NAME: MSU - AH DP ML
PROJECT NO: 9904
DRAWING NO: M-6-57
(PARTIAL REPRODUCTION)
ADDITION NO: DATE: 22-07-96
BULLETIN NO: 15

131313. The presentation was on the Air Compressor Fundamentals. Through this report, I expanded the Ingersoll Rand Manual and added some of my previous experiences on the Air Compressor Designs and their installations. I hope this will be helpful data.

141414. ASPE Eastern Michigan Chapter. Thanks to our Guest Speaker Jeffery Gogas, for both of his presentations and for presenting those great CAGI Manuals. Thanks for the great dinner, useful information and the best of company.

Let's get started with the new 2011- 2012 Program. The board has designed a very balanced and educational line up. Let's all make a resolution to attend every meeting for your personal benefits.

151515. The Next Meeting is September 20, 2011, Let's have a room full of great Chapter members.

Registration is required: by email NO LATER THEN 5:00 PM, Friday, September 16th, 2011.

Thank You.

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Ed's Perspective

By Thomas Taylor and Edwin Hawley

The Value of LEED Certification

Often a LEED Architect or Engineer is asked if the LEED certification is worth all the efforts of time and money? However, you will never get a straight answer to this question. When building owners approach a project, they must ask themselves many questions. Where should we build, the type of structure, its main purpose, the type of work, the number of people, the style of what it will look like, the time that's needed to build it and how will it be financed. Whom do we hire, to design and build, what type of A&E firm should be used? Additionally there is the need to check their experiences in the LEED field. These questions have very definite answers. Other questions asked during the decision-making process take longer to answer. These answers may be less definitive until enough information can be generated on which to base the necessary decisions.

Asking the question about whether to pursue LEED certification and whether the certification will be worth the effort are questions that can only be answered on a case by case basis.

The Basic for the Certification

Some building owners choose to follow the LEED rating system but never certify the building. Those who have followed this path can reap all of the benefits of following the rating system and avoid the cost associated with the actual certification. Before making the decision to pursue actual LEED certification, building owners may want to ascertain how they will benefit from following through with the entire process. Many owners of LEED certified buildings often cite the following reasons as their justification of pursuing the LEED certification.

- The prestige of having a LEED certified building.
- Marketing opportunities.
- Achieving energy efficiency.
- Having a building that promotes a healthy working environment for employees.
- The ability to measure the results of the owner's sustainability efforts.
- Compliance with a municipal mandate.

continued on page 9



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Validating the design and construction of a project using the U.S. Green Building Council's LEED rating system is unique to each organization. However, there is one thing that all building owners who have chosen to certify their project have in common: their motivation to certify made sense or addressed a need. If using sustainability and certification does not make sense for an organization, then simply put, it is not a sustainable solution.

An Integrated Process

The LEED rating system approaches projects through a multidisciplinary, integrated process. It is almost impossible to explore the opportunity of achieving any LEED prerequisite or credit without analyzing how the decision may influence all of the other aspects of a project. A design team may use the requirements of the LEED prerequisites and credit points as a guide, but understanding the impacts and interconnectivity by going through the full process of documenting the credit is another issue entirely. It is easy to say that a guideline is being followed, but to document that the project team has followed all of the necessary steps, and that the prerequisite and/or credit requirements have been met throughout the entire design and construction process is much more difficult. An example of this complexity can be found with Indoor Environmental Quality Credit 5 (IEQc5): Indoor Chemical and Pollutant Source Control. This credit requires the designers to incorporate a number of items into the design, including the following.

An entryway system that is at least 10 feet long must be incorporated in the primary direction of travel at each primary entrance to the building.

- Rooms in which hazardous chemicals (including housekeeping supplies are stored or mixed must meet several parameters.
 - ◊ The rooms must be ventilated directly to the outside of the building.
 - ◊ The rooms must be sealed, deck to deck partitions.
 - ◊ Doors to the rooms must be self closing and the rooms must be able to maintain a negative pressure with respect to surrounding spaces.
- All mechanical equipment must accommodate a MERV (Minimum Efficiency Reporting Value)

13 rated filter, and those filters must be on both the supply and the return sides of the ventilation equipment.

It may be relatively easy to place a walk-off mat system at the front door. However, documenting that all of the individual requirements of this credit have been met and demonstrating to the LEED reviewer's satisfaction that the design contains all of the required elements and the contractor has constructed the building to meet the plans and specifications requires a much greater effort.

Even more effort must be expended to understand how the decision to pursue this credit is interconnected to other aspects of the building. A 10-foot-long entryway system can pose challenges to a design team striving for a certain aesthetic in a

building entrance. Construction details indicating deck-to-deck partitions must be included in the drawings, and the mechanical design must take into account the need to exhaust these rooms to the outside of the building. A MERV 13-rated filter will affect the energy needed to power fans within the ventilation system, and the owner's facility management department must understand the additional cost of the High-Efficiency filters. Is it worth going through all of this effort to gain one LEED credit point? It depends. If it is important to the building owner to provide a high-quality indoor environment for those who occupy and visit the building, then pursuing this LEED credit is definitely worth the effort.

Is It Worth It?

There are no easy answers when it comes to LEED. More often than not, questions asked about LEED can only be answered with the phrase, "It depends." A good example is a question pertaining to electricity use in LEED certified facilities. Designs that comply with LEED Energy and Atmosphere Prerequisite 1 (EAp1): Minimum Energy Performance will show a minimum amount of energy savings, but saving beyond this minimum will be dependent on the overall design and operation of the building. Another common question is whether a LEED certified building will provide a healthier environment for employees. It depends on the design team and the contractors. The design team has to include all the elements that contribute to enhanced indoor environmental quality, and the contractors must effectively utilize a low-emitting strategy. But one of the biggest questions asked by facility owners is whether LEED certification will add more cost to their projects. That depends on the experience of the delivery team and the elements that were included in the building before making the decision to pursue certification.

So, is getting your project LEED certified worth the effort? Before answering this question and deciding whether to certify, engage a project team that is experienced with and has knowledgeable about the LEED system and the certification process so they can better inform you how your company would benefit from LEED certification.

Mr. Thomas Taylor, a 29-year veteran of the construction industry and noted expert on sustainability, is the general manager of St. Louis-based Vertegy. After seeing a number of the present problem and design documents that are lacking in good data and information along with the time it takes to formulate all the forms that comprise LEED certification his answers proved my points.

Jim Kendzel, CAE,

Joins ASSE Product Standards Committee

The American Society of Sanitary Engineering (ASSE) has appointed ASPE Executive Director/CEO Jim Kendzel, CAE, to their Product Standards Committee.
For more info go to <http://aspe.org>



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FYI

2011 ASPE Technical Symposium

October 27-30, 2011



October 27-30, 2011
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2011 SYMPOSIUM INFO

Network to Succeed.

Registration now open!

The 2011 ASPE Technical Symposium will be held Oct. 27- 30, 2011, at the Buena Vista Palace Hotel, located inside the Disney World Resort. Attendees will enjoy a number of technical education sessions presented by experts in the field of plumbing engineering in addition to the one-on-one face time with manufacturers at the Product Show. Amazing room rates at the Buena Vista Palace already have been negotiated, so put the ASPE Technical Symposium on your calendar today!

Click Here to Register - <https://aspe.org/2011TechRegOnline>

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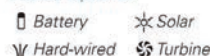
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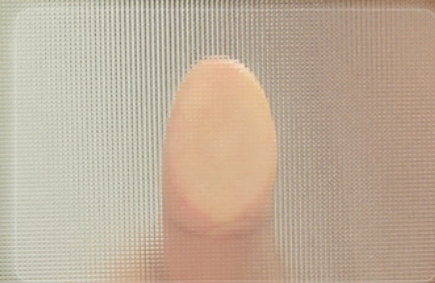
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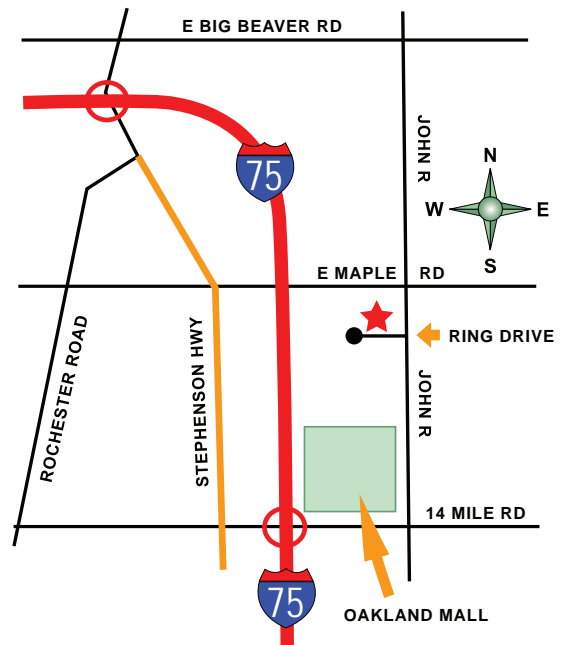
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