

Next **Thursday** is our Feb 9 Meeting. at Marshall University. Our new Student Branch from the Business and Engineering Colleges will be attending. Please come. We have an ASHRAE Distinguished Lecturer from Michigan presenting 3 outstanding sessions.

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Feb Meeting Announcement is below. In other news, the ASHRAE Winter Meeting in Las Vegas just ended. it was very well attended. Our Chapter was well represented at the meeting. Also, a number of new items have posted to our webpage <http://www.wvashrae.org>. Look for a new posting on the five WV ASHRAE presentations at March WV EXPO Show and info on the public review of the first ASHRAE/AIA/AES/USGBC/DOE Advanced Energy Design Guide for Near Net Zero K-12 Schools. .



Is Hosting an Event



February 9<sup>th</sup>, 2017

in the

**Arthur Weisberg Family Applied Engineering Complex**

**1676 3rd Ave, Huntington, WV 25703**

**Room WAEC 1105**

**Presentations Provided By ASHRAE Distinguished Lecturer**

**Douglas F. Zentz**

**And the Kick-Off for Marshall ASHRAE Student Branch**

11:00 am to Noon

“HVAC and Energy Efficiency”

Noon to 1:00 pm

Box Lunch and “How to Communicate Technically in a Professional World with

Technical Information”

1:00 to 2:00 pm

“Doing More with Less”

Sign up at [www.wvashrae.org](http://www.wvashrae.org) (Chapter members \$20, Students are free thanks to a

sponsor. Guests are \$25.

Speaker :

Douglas F. Zentz

**HVACR Program****School of Built Environment****College of Engineering Technology****Ferris State University****20616 Madison Avenue****Big Rapids, MI 49307**

Douglas F. Zentz, Associate Professor, is the Program Coordinator for the HVACR Programs within the College of Engineering Technology at Ferris State University. He received his Bachelor degree in Mechanical Engineering Technology from Purdue University in 1980 and his Master degree in Career and Technical Education from Ferris State University in 2007. He is a past President of West Michigan ASHRAE, a past RVC of Student Activities for Region V, and past Chair for Student Activities within ASHRAE.

In the field of HVACR, his background includes professional engineering sales for the Trane Company, manager of engineering-design-build for W.J. O'Neil Company in Detroit, and vice-president of engineering for EPPA-Strand Custom Air Handling in Detroit. This experience started in 1980 and continued until his transformation into teaching at Ferris State University in 2003.

In the area of teaching, he has taught junior and senior level HVAC Design (primary and secondary systems), Primary Equipment Selection, Commercial Building Heat Gain/ Heat and the senior Capstone Experience. His teaching experiences includes development of new curriculum (both in the traditional classroom and fully on-line) and teaching fully on-line courses for over 10 years. He has mentored eight (8) different student groups which have received either a First, Second, or Third place recognition from ASHRAE in the Student Design Competition. He serves on many educational committees and was a member of Fluke Instrument's Advisory Board on IAQ.

In the area of professional speaking, he has been the guest speaker at 36 events since 2005. Organizations which have invited him to speak include: 1) Mechanical Contractors of America, 2) Air Conditioning Contractors of America, 3) ASHRAE 4) ARI (teachers workshop), 5) Lily West Conference (educational workshop), 6) USGBC (West Michigan), 7) Ferris State University (Energy Conferences), and 8) Efficiency United (educational arm of 16 Michigan Utilities).

**HVAC and Energy Efficiency**

This presentation looks at the evolution of HVAC within commercial buildings and how this impacts the energy footprint of buildings, how the DOE is viewing this in relationship to current and future energy efficiency demands, what

for commercial building energy efficiency.

### **How to Communicate Technically in a Professional World with Technical Information**

Many in our Industry struggle with how to communicate effectively with technical information, keeping on target, providing the reader with a proper roadmap of information, delivering all necessary information in a logical & clear format, and doing so such that anyone within our industry can understand the objective and the solution to a given situation or problem. This session illustrates a thought process along with a structure such that anyone can present a technical problem/situation and provide a clear and logical solution in written communication for others.

### **Doing More With Less**

Water based systems have a long history of use in HVAC and provide many benefits; however, most of these systems are still being used as they were over 60 years ago. Water has a high affinity for energy and we should be using it in a much wiser fashion. This presentation will illustrate how to use water based systems to transfer energy more efficiently, save operational expense, help control systems operate with greater ease, and open other benefits to the overall building design and operation.

Outline:

1. Introduction
2. Review the properties of water and energy transfer
3. Review of control valve operation
4. Review hydronic pump operation
5. Illustrate the differences of low delta systems verse higher delta systems
6. Illustrate other benefits due to changes in supply and return water temperatures

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