


Event:  
Date:  
Place:

**ENERGY in BUILDINGS 2018**  
Saturday November 3, 2018  
Athens, Hellas



<b>#</b>	<b>Douglas F Zentz</b> <b>Associate Professor</b>	
Title:	HVACR Program Faculty – School of Built Environment College of Engineering Technology – Ferris State University, Big Rapids, MI 49307	
email:	zentzd@ferris.edu	
Presentation title:	<b>ASHRAE Standard 189.1 – “Standards for the Design of High Performance Buildings; except Low-Rise Residential”</b>	
<p>This new ASHRAE standard was developed in coordination with USBGC, IES and ICC for the purpose of creating a code ready standard that addresses the overall building performance needs in establishing a minimum level of acceptance as to what is a “GREEN” building. ASHRAE Standard 189.1 incorporates ASHRAE Standards 62.1, 55, and 90.1 (all current versions) and the platform of LEED to develop code language explanations for all areas of a Green Building and what the building owner can expect for building performance. The presentation will address the following in reference to ASHRAE 189.1; (a) Why have it?, (b) Relationship to Other ASHRAE Standards, and (c) What is in the Standard. The content of the details of the standard will be covered in a general context (due to time) as it will outline the areas of the standard, show Mandatory elements within each area of the standard, and then illustrate the two paths of compliance (prescriptive and performance) for each area of the standard. This standard has international agreement with ICC.</p>		
CV:	<p>Douglas F. Zentz, Associate Professor, from the HVACR Programs within the College of Engineering Technology at Ferris State University received his Bachelor’s degree in Mechanical Engineering Technology from Purdue University in 1980 and 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 for Region V, and past Chair for Student Activities within ASHRAE. Doug received the Distinguished Service Award from ASHRAE in 2015, a Distinguished ASHRAE Lecturer and is the RMCR for Region V.</p> <p>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.</p> <p>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 15 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.</p>	

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In the area of professional speaking, he has been the guest speaker at over 60 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).