

Program: "What's Your EUI?" and "Doing More With Less"

Presented by: Douglas F. Zents

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.

What's Your EUI?

Energy Efficiency related to commercial buildings is being analyzed by the DOE in a way to establish benchmarking for different building types within different climate zones. This has lead to average building energy footprint figures for most commercial buildings, yet the industry is now aware of how this new benchmarking will affect buildings and their lifecycle. This presentation explains the complicated process of overall building energy efficiency, how this relates to DOE standards, and how this is related to other elements including potential Carbon Indexing (or Carbon Taxation). Closely tied to this discussion will be a brief connection to ASHRAE Standard 189.1 due to the characteristics of this standard and its impact on EUI.

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.



Thursday, May 26th, 2016
The Retired Enlisted Association (TREA) 4-7 PM
1981 Centre St, Rapid City, SD 57703

The cost is \$25 per person! Spouses and guests welcome to attend!
Prime rib meal will be provided! Additional drinks available for purchase at Bar!
Please RSVP no later than May 12, 2016 at:

rsvp@blackhillsashrae.org

- President*
David Dowling
- Vice President and Secretary*
Ethan Grover
- Treasurer*
Jay Grow
- Membership*
Mike Malone
- Research Promotion*
Matt Koupal
- Technology Transfer*
Mike Austin
- Student Activities*
Jeremy Clocksin
- Grassroots Government Activities*
Mike Mueller
- Historian*
John Huntley
- Webmaster*
Michael Heinrich
- Newsletter Editor*
Sean O'Connor

President's Message

As the 2015-16 ASHRAE year is drawing to a close, my two year term as President of the Black Hills Area Chapter of ASHRAE is also nearing an end. Over the past couple of years, it has become clear that being a member of ASHRAE means something different for each individual member. To me, ASHRAE is a grassroots organization that builds leaders through its uniquely positioned opportunities, while advancing the arts and sciences of the HVAC&R industry. The opportunities presented to me and the networking relationships I have gained would not have been possible without being an ASHRAE volunteer. In the coming weeks I challenge everyone to consider becoming an ASHRAE volunteer at the chapter, regional, or societal level. ASHRAE needs volunteers to succeed and you will be surprised how many leadership opportunities are available to you!

I have a very important announcement to bring to everyone's attention! The South Dakota Building Officials will meet at the City Administration Building in Rapid City, South Dakota on July 21, 2016 at 1:00 PM. The agenda for this meeting includes a discussion of proposed legislation which clarifies what statewide commercial building energy code is to be followed. Since this will directly impact our industry, the South Dakota Chapter has requested that the Black Hills Area Chapter Grassroots Government Activities Chair attend this meeting. If politics are your passion or if you would like to make a difference in our industry within South Dakota, I would urge you to attend this meeting and get involved with the Grassroots Government Activities Committee!

As for our May program, we have planned an evening social event in conjunction with two distinguished lecturer presentations and a raffle toward the end. Everyone should attend as this event is one you don't want to miss!

On a final note, the Black Hills Area Chapter of ASHRAE is now selling raffle tickets (1 for \$5 and 5 for \$20) for a chance to win a 39" Vizio E-Series TV; the drawing will occur at our May 26, 2016 Distinguished Lecturer Program/Social Event with all proceeds going toward ASHRAE Research Promotion. Please fill-out each Raffle Ticket Entry (see attached sheet) and get the ticket(s) and payment to me by our May Program. Winner need not be present to win!

David Dowling, President, Black Hills Chapter of ASHRAE

Chapter Programs Schedule

Below is a listing of this year's programs. Please call or e-mail suggestions for programs as indicated below:

| | | |
|--------------------|---|-------------------------|
| September 17, 2015 | Light Weight Construction and the Modern Fire Environment | Tim Behlings |
| October 22, 2015 | Pertinent Building Codes for the Mechanical/Electrical Engineer | Jeff Larus |
| November 19, 2015 | Commercial High Quality Water systems | Brian Soderholm |
| December 17, 2015 | BH Business Development Center Tour/Happy Hour | TBD |
| January 21, 2016 | Electro Technology Expo | Drury B. Crawley, Ph.D. |
| February 18, 2016 | Numerical simulation of two-phase turbulent flows | Bamdad Lessani, Ph.D. |
| March 17, 2016 | Intelligent Equipment | Dan Sullivan |
| April 21, 2016 | ASHRAE Webcast: Making Net Zero Net Positive | Multiple |
| May 19, 2016 | What's Your EUI? And Doing More With Less | Douglas F. Zents |

Send program suggestions to: Mike Austin
(P) 605-348-2033
(F) 605-348-1543
programs@blackhillsashrae.org

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Mike Malone at:
membershippromotion@blackhillsashrae.org

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Black Hills ASHRAE: Raffle Ticket Entry

Name _____

Address _____

Phone _____

Black Hills Area Chapter of ASHRAE

Vizio 39" E-Series smart TV Raffle

Drawing Date: 5/26/2016

Proceeds: to benefit ASHRAE Research

Donation: 1 for \$5.00 or 5 for \$20.00

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THE GREAT POLITICAL ESCAPE 2016



VOTE TO GOLF API/ASHRAE TOURNAMENT



July 14, 2016
Elks Golf Course
Rapid City, South Dakota
Tee-Off - 7:00 a.m. to 12:00 p.m.

\$75 Entry Fee – Includes—Green Fees, Cart Rental,
Refreshments on Course, Dinner for One
Location: Elks Supper Club – Lower Level Social Hour: 5:00 p.m.

Awards and Dinner: 6:00 p.m.

Dinner Choices: Steak or Chicken w/trimmings

Additional Dinners: \$20 (wife, friends welcome)

CLOSEST TO THE PIN ON #9 CONTEST

**\$100.00 prize with proceeds of your \$5.00 Donation to
Support SDSM&T Student Branch of ASHRAE**

Send confirmation, checks, foursome and requested starting time(s) to:

Mike Mueller
mmueller@regionalhealth.com
(605) 755-7158 - Office
(605) 390-6253 - Mobile

Mike Erhart
mike.erhart@apidistribution.us
2319 North Plaza Drive Suite 3
Rapid City, SD 57702
(605) 787-6781 - Office
(605) 787-4017 - Fax

PRIZES & DONATIONS NEEDED

Proud Hole Sponsors (\$50.00)

Thank you to all the previous sponsors – We again met our scholarship goal!
Make checks payable to ASHRAE.

