



CLEVELAND ASHRAE NEWSLETTER

February 2009



FEBRUARY MEETING

Advanced Energy Design Guidelines for K-12 School Buildings

February 18, 2009

Times: 11:30am-11:50am
11:50am-12:20pm
12:20pm-1:00pm

Sign-In
Lunch
Presentation

Speaker: Merle McBride, PhD, PE
Location: Sheraton Hotel
5300 Rockside Road
Independence, OH 44131

R.S.V.P. @ (216) 373-0315 by 12:00 Noon on Friday, February 13th for Reservations.
Please state if you need a CPD Certificate. Dress Attire is Business Casual.

We are very pleased to have ASHRAE Distinguished Lecturer, Mr. Merle McBride, PhD, PE visit our chapter in February. He will be speaking on the "ASHRAE Advanced Energy Design Guides (AEDG)." The guides provide simple prescriptive recommendations for eight climate zones that can be used to achieve LEED certification in lieu of detailed simulations. Mr. McBride will be discussing the development process, how the recommendations were set and the energy savings that were achieved. We anticipate a large audience, so please make your reservation early.

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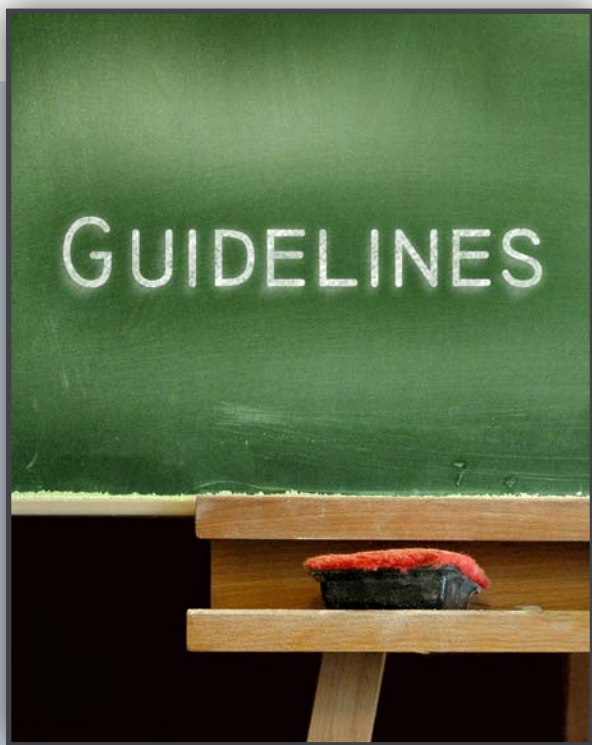
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THE PRESIDENT'S CORNER

BY MATT NELSON



February 3, 2009

It was good to see all of you at the January meeting. I think the discussion was beneficial and had some ideas that can be building blocks for the future. Thanks again to our panelists Ed McHenry and Brian Widowski for helping with our last minute course correction, reality always has a way of getting the best of our plans. My one sentence summary from the meeting would be: "In regard to training, engineers need to learn innovatively, strengthen communication skills, and invest your own time in your career education before asking your employer to contribute."

In today's political climate a lot of emphasis has been put on bolstering our educational system, specifically the K-12 schools. This situation is augmenting the fact that Ohio is in the midst of re-building its current K-12 building stock with schools that are green and energy efficient. But just mandating a building to be energy efficient doesn't mean that it will translate this way into design. To help achieve this, we have brought in an ASHRAE distinguished lecturer and a person involved with the development of ASHRAE's Advanced Energy Design Guidelines for K-12 School Buildings. Clearly, this topic could be beneficial to a large number of people outside our membership and with a potentially long-term impact on our local community as a whole. Therefore, the board of governors and I want this to be

an opportunity for all our membership to invite guests, free of charge for those who call in only, whether they are architects, code officials, construction managers, school board members, frankly anyone in construction interested in learning more about this topic. I challenge you to get the attendance for this meeting to 80 registered members and guests.

Thanks for your help. I'll see YOU at the meeting.

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SPEAKER BIO

Mr. McBride, PhD, PE is an ASHRAE Distinguished lecturer, and as an Ohio Professional Engineer, has been a research engineer at the Owens Corning Center of Science and Technology for 31 years. He has received a number of degrees from The Ohio State University and has focused on insulation product and process development and the energy performance of residential and commercial buildings. He has been involved with ASHRAE on a national level since 1976 and has been the Chair on numerous technical committees. Most recently he has been a voting member on all of the AEDG, including a Vice Chair position on Schools K-12. He is the author of over 65 technical papers, articles, books and reports and has received two U.S. patents. Mr. McBride has also received the ASHRAE Distinguished Service Award, the Willis H. Carrier Award for the best technical paper by a member that was less than 32 years of age and numerous other awards from Owens Corning.



JANUARY MEETING RECAP

Our January 21st 2009 lunch meeting had over fifty people in attendance for our presentation on "The Past, Present and Future Training of Young Engineers." We were very fortunate to have Mr. Ed McHenry, Mr. Matt Nelson and Mr. Brian Widowski as our panelists for our Round Table Discussion. Our Chapter thanks each of them for their time and knowledge sharing with our chapter.

Using the American Consulting Engineers Companies guidelines, Ed set the stage for our discussion by defining the professional levels of young engineers, E1 to E4. As an engineer advances through these grades, he

or she is faced with a number of challenges. Some of these challenges are cultural shock to the business world, advancing one's technical skills, refining communication skills and interfacing with construction industry personnel. All panelists stressed that a young engineer must not only learn while in the office, but he or she must be committed to self-directed learning outside of the work environment. A young engineer must be proactive in their knowledge development.

As our industry incorporates more young engineers, it will be imperative to transfer knowledge from our well-experienced leaders to those that follow

behind them. One concept discussed to help this cause was the development of a "Community of Knowledge" or a "Local or Regional Learning Center" where ideas could be shared or educational courses could be provided. It was also noted that involvement with ASHRAE creates an opportunity to interface with authors of standards and guidelines, basically the individuals developing many of the documents guiding our industry. Discussing ideas and solutions with these authors or even with other young engineering peers provide great avenues to learn. In closing, Matt Nelson challenged our chapter to create a "Training Program that Rocks."

ASHRAE Scholarship Application

If you know of someone who is actively attending college to earn a mechanical or architectural engineering degree at a Northeast Ohio University or out of the area but is from the Northeast Ohio area, please point them in a direction of a Sal Triana Scholarship possibility. The intent of this scholarship is to help those engineering students seeking to someday make a career in the HVAC consulting/engineering/sales businesses get through the financial struggles of a higher education.

Applications can be found on the Cleveland ASHRAE Website and e-mailed to kborah@karpinskieng.com. If you have any questions please feel free to contact Ken Borah at **216-391-3700**.

ASHRAE Rosters are at the printer. They will be distributed this month!



ASHRAE RESEARCH PROMOTION

Did you know...

...that ASHRAE completed 8 research projects this year?



HIGHLIGHTED PROJECTS

Chemical Out-Gassing from Indoor Swimming Pools

The goal of this project is to establish the interaction between the pool water treatment system and the ventilation system in order to provide the design engineer with more accurate specification guidelines.

Characterization of Effluents from Additional Cooking Appliances

This research ensures that ASHRAE maintains the leadership it currently has in understanding commercial kitchen ventilation issues. This knowledge is crucial for directing future designs and optimizing commercial kitchen hoods and their associated filtration systems, and can lead to future revisions of handbooks, design guides, and codes and standards.

Development of Design Guidelines for Hybrid Ground Source Heat Pump Systems

The results of this project will be design guidelines that will extend the applicability of ground source heat pumps to heavily heating and cooling-dominated buildings. This design method will be immediately useful to ASHRAE members involved in the design and selection of HVAC equipment for buildings.



For more detail & information go to the Research Promotion Quicklink!

ASHRAE Research Promotion Chair for the Cleveland Chapter

Dominic Cacolici, P.E.



CHAPTER CALENDAR



September 15, 2008

Evolution of VAV Systems

Location: [Harry's Steakhouse](#)

October 20, 2008

Control Systems

Location: [Harry's Steakhouse](#)

November 19, 2008

CEUniversity (Bus. of Eng. & Applied Eng)

Location: [Corporate College East](#)

December 2008

ASHRAE Social

Wednesday, January 21, 2009

Lunch Meeting:

The Past, Present and Future Training
of Young Engineers

Location: [Sheraton Hotel](#)

Wednesday, February 18, 2009

Lunch Meeting: AEDG K-12

Location: [Sheraton Hotel](#)

March 16, 2009

ASHRAE President, Mr. Bill Harrison

Location: [Harry's Steakhouse](#)

April 20, 2009

Green Done Easy for LEED

Location: [Harry's Steakhouse](#)

May 18, 2009

ASHRAE Learning

Location: [Harry's Steakhouse](#)

June 2009

Membership Promotion Golf Outing

