OCTOBER MEETING


October 17, 2011

Speaker: Drury Crawley, ASHRAE DL

Times:
4:15pm - 5:30pm Board Meeting
5:30pm - 6:15pm Attitude Adjustment Hour!
6:15pm - 7:15pm Dinner
7:15pm - 8:15pm Presentation

Location: Harry’s Steakhouse
5664 Brecksville Road
Independence, OH 44131

R.S.V.P. via your Constant Contact invitation.
Guests are welcome for a $25 dinner charge.

With the interest in green building certification and requirements that new Federal buildings achieve 30% energy savings beyond Standard 90.1-2004, simulating the energy performance of buildings has become increasingly important. EnergyPlus includes many building energy simulation features that have not been available together in a mainstream building energy simulation program—including variable time steps, configurable modular systems integrated with a heat balance-based zone simulation, on-site power, hybrid natural/mechanical ventilation, and UFAD. This presentation introduces the types of simulation tools available today, demonstrates a few of the available tools, and provides an overview of EnergyPlus simulation methodologies, capabilities and utilities and interfaces—including the Energy Design Plugin for Google SketchUp.
October 12, 2011

It was great to see our members again in September after our summer sabbatical. Eric Hancock, with Belimo Controls, presented the nuances and energy efficiencies of air side economizers. What is truly amazing is that such a simple piece of equipment has profound effects on the overall efficiency of a building. As we walk around the buildings we service, it would behoove us, our clients, and customers to ensure that the air side economizers are functioning and operating in a capacity which will benefit the building owner in a net energy savings.

Continuing with our energy savings theme, the Cleveland ASHRAE will host, during our October meeting and as our Distinguished Lecturer, Dr. Drury Crawley. Dr. Crawley will be joining us from Washington, D.C. to give us a presentation on Energy Plus which is the Department of Energy’s new building energy simulation program.

Before our October meeting and during our “attitude adjustment hour” (AAH!), please take notice that the drink pricing has come down as compared with last year. The current governing board has worked with Harry’s Steakhouse in reducing the price of the AAH! drinks from $3.75 to $3.00. Also Harry’s has generously waived the bar set up and bartender fee for our group.

I look forward to seeing you at the October meeting and learning about Energy Plus.

Shawn W. Beres

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OFFICERS & COMMITTEE CHAIRMEN

2010-2011 Officers and Board of Governors
President: Shawn Beres
President Elect: Dominic Cacolici
Treasurer: Matt Morgan
Secretary: Scott Dusenbury
Board of Governors: Doug Barnes, Billy Kodosky

Committees and Chairs
Chapter Technical Transfer Committee: Robert Laneve
Programs (CTTC): Robert Laneve, Mike Quinn
Refrigeration (CTTC): Richard B. Long
Gov’t Activities (CTTC): Doug Barnes
Membership & Roster: Brendan Hall
Product Directory: Daniel J. Back
Research Promotion: Kris Haycook
Newsletter: James Dutt
Student Activities: Scott K. Jordan
Honor & Awards: Fred H. Hollman
Historian: Dave Deschler
Science Fair: Steven R. Armstrong
Meeting Host: Scott Dusenbury
Engineer’s Week: Shariq Ali
Special Events: Ken Borah
Budget & IRS Compliance: Billy Kodosky
Sunshine Fund: Shawn Beres
Scholarship Fund (Sal Triana & Gardiner): Gary Gardiner
Golf Outing: Louis A. Bentzen
Engineer’s Week: James G. MacMillan
Special Events: Brian McFearin
Budget & IRS Compliance: Fred H. Hollman
Sunshine Fund: James W. Wickert

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Shawn W. Beres
Dr. Crawley leads the development of software for building performance and sustainability at Bentley Systems. Prior to joining Bentley Systems in 2010, he lead the U.S. Department of Energy’s team working to achieve cost-effective net-zero energy commercial buildings by 2025 and was responsible for managing the DOE’s building energy software tools development activities including EnergyPlus and the Open Studio plugin for Google SketchUp.

With more than 30 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in government research and standards development organizations, as well as building software, design and consulting companies. A registered architect, he also has a PhD in Mechanical Engineering on the topic of building simulation as a policy tool from the University of Strathclyde in Glasgow, Scotland.

He is active in ASHRAE (Chair of Standard 169 Weather Data for Building Design Standards, member of SSPC 189.1 Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, member of SSPC 140 Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs, member of the Technical Activities Committee, former member of the Research Administration Committee, and former chair of TCs 2.8, 4.2, 4.7, and 7.1). He was made an ASHRAE Fellow in 2009, received an ASHRAE Distinguished Service award in 2003 and a 1999 Symposium Best Paper Award for “Which Weather Data Should You Use for Energy Simulations of Commercial Buildings?”

He is also active in AIA, IBPSA, USGBC (former member of the Research Committee and the Energy & Atmosphere TAG), and serves on the editorial boards of three international Journals. He has written more than 100 papers and articles and made more than 300 presentations on energy efficiency, sustainability, and renewable energy topics throughout the world.

**SEPTEMBER MEETING RECAP**

On September 19, 2011 we started our 2011-12 ASHRAE Year with a presentation by Mr. Eric Hancock from Belimo Conrols. Eric discussed “Air-side Economizer Regulatory Evolution.” His discussions focused on roof-top units and changes to codes and standards that are impacting economizer control strategies. An Iowa energy study found that 50% of economizer systems are not operating properly. Other investigations have found over 60% of rooftop units have economizer issues after 1-1.5 years of installation. Issues include frozen or broken drive systems, faulty sensors, low change over temperatures, and improper airflows. Many times the units were set to “factory default” settings and not changed to their specific climatic zone setting. Quality of sensors, human error, lack of commissioning, and incorrect test and balance also contributes to faulty economizer operation. As an attempt to correct these issues, codes and standards are being revised. Examples include ASHRAE 90.1 redefining Climate Zones, the California Energy Commission mandating levels beyond 90.1, movement towards the use of two speed fans, continued implementation of demand controlled ventilation, tax incentives for proper operation, stronger specifications, and defining better acceptance testing.

Thank you Eric for reminding us of the importance of economizer operation.

**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.
Join ASHRAE in Chicago!

Don’t miss the chance to participate in ASHRAE’s historically best-attended Conference!

Technical Program — join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.

Virtual Conference — if you can’t make it to Chicago, take advantage of the knowledge shared in the technical program with the Virtual Conference.


ASHRAE Certification — all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute — five Professional Development Seminars and 14 Short Courses are offered, including a new course on the basics of combined heating and power systems and updates to courses covering Standards 62.1 and 90.1 reflect changes in the 2010 versions of these standards.

[www.ashrae.org/chicago](http://www.ashrae.org/chicago)
National Association of Women in Construction
Cleveland Chapter #156
cordially invites you to attend the

Eight Annual Joint Associations Holiday Social

Thursday, December 8, 2011
at
Embassy Suites Hotel - Independence
5800 Rockside Woods Blvd., Independence, OH 44131

Join the Members of Construction Industry Associations for an evening of Networking, Holiday Spirits, Good Food, Fun and Fellowship. The last year's Participants were:

Associated General Contractors of Ohio - Cleveland Division (AGC)
American Institute of Constructors (AIC)
American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE)
American Society of Professional Estimators (ASPE)
Architectural Woodwork Institute-Northeast Ohio Chapter (AWI)
The Builders Exchange, Inc. (BX)
Construction Employers Association (CEA)
Construction Financial Management Association – Northeast Ohio (CFMA)
Construction Management Association of America – Ohio Chapter (CMAA)
Construction Specifications Institute – Cleveland Chapter (CSI)
Mechanical and Plumbing Industry Council (MAPIC)
National Association of Women in Construction (NAWIC)
Ohio Contractors Association (OCA)

Guests are asked to help our Community by participating in the Canned Food Drive for the Hunger Network.
Each person that donates will receive one free ticket to participate in the Chinese Auction.
Beautifully decorated themed baskets or items at the Chinese Auction - tickets are $1 each or 6 for $5
Start your holiday shopping fund with the 50/50 Raffle - tickets are $5 each or 3 for $10 & 7 for $20

Personal or company donations are welcome. Please complete the attached donation form.

Fill out the attached reservation form to include with a check payable to: NAWIC Cleveland Chapter #156
Please mail your reservation back NO LATER THAN Wednesday, November 30, 2011

Carol Kempton
c/o Regency Construction Services, Inc.
14600 Detroit Road, Suite 1495
Lakewood, Ohio 44107
Phone: 216.529.1188 - Fax: 216.529.077 - KemptonC@regencysci.com
RESERVATION FORM

Eight Annual Joint Associations Holiday Social

Thursday, December 8, 2011
Embassy Suites Hotel - Independence
5800 Rockside Woods Boulevard, Independence, OH 44131

Registration & Networking 6:00 pm
Cocktail Reception (Cash Bar)
Purchase Tickets for Chinese Auction and 50/50 Raffle
Dinner – Carved Beef Tenderloin, Chicken Piccata,

Talapia with Mango Coulis and Pineapple Salsa
Welcome and Association Introductions 8:15 pm
Entertainment – Cool 2 Duel (Dueling Pianos) 8:30 pm
Chinese Auction and 50/50 Raffle – Door Prize Drawing 9:30 pm
Continue with Networking until 10:30 PM

Please Print or Type Clearly for Name Tags

Name ____________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Spouse/Guest _________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Company ____________________________
Association Affiliations (please list all that apply): __________________________________________

Name ____________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Spouse/Guest _________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Company ____________________________
Association Affiliations (please list all that apply): __________________________________________

Name ____________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Spouse/Guest _________________________ Entrée: Beef ___  Chicken ___  Talapía ___  Veg ___
Company ____________________________
Association Affiliations (please list all that apply): __________________________________________

Make check payable to: NAWIC Cleveland Chapter #156

Number of Persons Attending ____ Amount of Check Enclosed_______
Name of Person Responding ____________________________
Phone ______________________________ E-mail ____________________________

Please check one:
Our company wishes to sit together at the table. ________
Our company wishes to network, please seat us separately. ________
Joint Associations Holiday Social

Eight Annual Joint Associations Holiday Social

DONATION FORM
CHINESE AUCTION
DOOR PRIZE

(Please fax or email form to Amy Hewis, see below)
(* required fields needed to respond with proper a thank you)

*Company

*Contact Person E-Mail

*Address

*City, State, Zip

Phone Fax

Please indicate which item(s) you wish to donate.

Chinese Auction: ______ Description of Auction Item:

(if basket: name, type of items in basket, item description)

Door Prize: ______ Description of door prize:

(cash, gift cards, item description, etc)

We would appreciate baskets with a theme for the Chinese Auction but any donation is welcome. Please add to the description line how you would like the name of your item to appear as we would like to properly recognize your donation. Unless provided, NAWIC will provide one for you.

Note:
• All door prizes and auction items will be listed alphabetically by company name in the program.
• All deadlines for donations to be included in the program need to be forwarded by Wednesday, November 30, 2011.
• Donations can be brought the night of the event or delivered to the address below. Please call AMY for other options.
• Checks can be made payable to NAWIC #156 and sent to AMY @ the address below

Thank you in advance for your generosity.

For donation inquiries contact:
Amy Hewis
Builders Exchange, Inc.
9555 Rockside Road
Valley View, OH 44125
216.393-6300, x 49  Fax 216.393.6301
E-mail: ahewis@bxohio.com
Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client’s expectations.

**Who Should Attend**

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC design
- Construction project managers involved with mechanical systems

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register
October 17, 2011
Energy Plus
Drury Crawley, ASHRAE DL
Location: Harry’s Steakhouse

November 21, 2011
Fan Efficiency Grades
YEA Night
Location: Harry’s Steakhouse

January 18, 2012
Lunch Meeting
Location: Crowne Plaza

January 21-25, 2012
Winter Conference
Location: Chicago, IL

February 15, 2012
Lunch Meeting
Location: Crowne Plaza

March 21, 2012

Lunch Meeting
Location: Crowne Plaza

April 16, 2012
TBD
Location: TBD

April 19, 2012
ASHRAE Webcast: DOAS
Location: Karpinski Engineering

May 21, 2012
Past Presidents Night
Location: Harry’s Steakhouse

June 2012
Membership Promotion
Golf Outing

August 2012
Region V CRC
Location: Cleveland