



Dayton Chapter

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

Dayton Chapter
PO Box 3202 Dayton, OH 45401
<http://www.daytonashrae.org>

How Do They Do That?

Fabrication and Sealing of Ductwork Tour and Demonstration

Monday, April 8, 2013

AMS Sheetmetal Shop
5598 Wolf Creek Pike
Trotwood, OH 45426



Membership Promotion Night

Tour starts promptly at 5 PM!
Tours and dinner
PDH points available

FREE for local members, prospective members and students
All others \$20 at the door

RSVP by April 4, 2013 at 12 noon to
Jeremy Fauber at JPFauber@heapy.com or 224-0861

COMING EVENTS:

- ◆ April 17 Board Meeting at Heapy Engineering, 8 AM
- ◆ April 18 ASHRAE Webinar 1-4 PM Heapy Engineering
- ◆ May 9 Spring Golf Outing, Heatherwoode
- ◆ June 22-26 ASHRAE Annual Meeting in Denver, CO

ASHRAE

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A Note from the President:

Spring has sprung! It's that time of year again: spring cleaning, blowing the dust off that old lawn mower, tuning up the old bicycle, stocking up on allergy supplies, or having the oil changed in your Ferrari(s)!

I would like to thank Lorraine and Gary Kapka for their excellent presentations on ethics last month; there was lots of discussion and participation in the dinner session. I found it very interesting to directly discuss the scenarios with my table, as well as hear the other groups' responses. The student showing was wonderful as well; I look forward to seeing them more in the future!

We have two more meetings left for this Board year, which means we are down to our annual tour and golf outing!

Our tour will take place this month and will be hosted by Applied Mechanical Systems. Scott Clagett, the shop foreman, will guide us through his processes and the guidelines he uses for duct construction. If you've never seen duct fabrication in person, now is your chance! Remember that now is the opportunity you've been waiting for to bring a prospective member and show them what ASHRAE is all about.

The Golf outing will continue on at Heatherwoode and Kerry Ward is doing an excellent job at bringing everything together for us once again! Please see our golf outing fliers later in this newsletter.!

As my year as president winds down I would like to begin the push to bring the Sustainability Project to life and get it moving forward. We now have several local members ready to work with our student chapters to make it a huge success. If you're interested in joining our team, please contact me directly, and I will add you to the list!

Thank you all, have an outstanding April!

Jason Gillespie, President, ASHRAE Dayton Chapter

A note from our Research Promotion Chair:

With our annual contribution from Emerson Climate Technologies, we are at 93% of our goal of raising \$12,500 for research. Won't you help us go over the top? Use the form on page 9 or go the ASHRAE website and donate on-line. Be sure to include that you are from the Dayton Chapter so we get credit!

Thanks for your support! Denny Lammlein, Dayton RP Chair



Research Promotion Notes:

“One More” campaign for
2012-2013:

- ◆ One more Company (last year there were 11)
- ◆ One more individual (last year there were 23)
- ◆ One more dollar (or more) from each contributor

The Dayton Chapter has approximately 180 assigned members, with 50-60 who regularly attend meetings. Can't you “give back” even a little to the organization that provides your livelihood? **Contribution form on page 9.**

**\$11,627 to date
for 2012-13
93% of goal!!**

See the new 2012-2013 research promotion honor roll attached!

April Meeting and Tour

What: Sheet Metal Shop Tour and Membership Promotion Night!
When: 5pm - Monday, April 8th, 2013
Cost: Free to members, Prospective Members and Students, \$20 all others
Where: Applied Mechanical Systems
5598 Wolf Creek Pike
Dayton, Ohio 45426

Come join us after work for a tour of the AMS Dayton sheet metal shop. Scott Clagett, the shop foreman, will guide us through their processes of making rectangular metal ductwork. You will see the whole process, from rolls of raw steel to the finished formed and sealed product.

We will discuss SMACNA classes, run the coil line and plasma cutter, discuss using liners, corner fitting with airfoils, duct connections, later taps and how they are sealed, and general duct sealing as well.

A catered dinner will be provided after the tour, which will consist of rotating stations and is expected to last one hour.



Tax time got you down? Make a tax-deductible contribution to ASHRAE Research and you'll be all smiles next April!

Get involved in YOUR Dayton ASHRAE!

Now recruiting for members interested in:

Chapter Programs Chair

Chapter Service Positions (Secretary, Treasurer)

Other committee members

Website and newsletter personnel

It only takes a few hours a month and can be so rewarding!

Contact Kyle Kurtz kyle.kurtz@trane.com

Be a part of something special!



Research Promotion Honor Roll 2012-13

Corporations

PLATINUM (\$1000 or more)

Emerson Climate Technologies

Dayton ASHRAE Chapter

GOLD (\$500 or more)

Waibel Energy Systems

SILVER (\$250 or more)

Heapy Engineering

BRONZE (\$150 or more)

Allied Supply Company, Inc.—Dayton

Individuals

HONORS (\$100 or more)

Jeremy Fauber

Tom Ferdelman

Jason Gillespie

Lorraine Kapka

Michael Kennedy

Bruce Knapp

Kyle Kurtz

Dennis Lammlein

Russ Marcks

Steven Meier

Evan Nutt

Bob Patterson

Jake Taylor

HONORABLE MENTION

Tom Monnig

Steffens-Schultz

Sidney Hagan

Kyle Schroeder

Coming Events!

Free!

FREE ASHRAE Webcast:

*Assessing Building Energy Performance:
From Principles to Practice*

April 18, 2013, 1:00 pm - 4:00 pm EDT

Heapy Engineering

Free!

**ASHRAE 2013 Annual
Conference
June 22-26, 2013
Denver, Colorado**



Join the NCBC on May 6-8, 2013 in Denver Colorado for a conference on Building Commissioning. Included are the Annual Dinner, an Education & Scholarship Golf Tournament, and two days of Commissioning updates. For further information go to the Building Commissioning Association (BCA) website at www.bcxa.org

Now is a Good Time to Get More Involved in ASHRAE!

Go National!

Applying for Membership on a Technical Committee

ASHRAE welcomes new members to its technical committees.

To be considered for technical committee membership, you must:

- ◆ Notify ASHRAE staff at TCStaff@ashrae.net of your interest in a particular TC, TG, TRG, or MTG.
- ◆ Create or update your ASHRAE biographical record under the “[Manage Your Membership](#)” link from the ASHRAE Web site

◆

Please note:

If you do not have an ASHRAE ID, are or not applying for ASHRAE membership, and are applying for a position that requires an ASHRAE bio to be on file, please [click here](#) to request an ID and PIN. You may also use that link if you already have an ASHRAE ID as a non-member, but you do not have a record of what that number is. You will immediately be assigned as a Provisional Corresponding Member. The acceptance of provisional corresponding membership implies participation in committee activities through correspondence or in-person involvement. Provisional corresponding members serve 2 year terms. Although provisional corresponding members are not voting members, at the end of your term and based on participation in the committee, you may be considered for future voting membership. Notification of acceptance to a TC is emailed upon your appointment.

Stay Local!

See page 8 for local opportunities or contact any Board member (listed on page 2).

Dayton ASHRAE Needs You!



Wanted: Individuals to step up and work on the Dayton Sustainability Project.

Qualifications: Willingness to work with others to set up his year's sustainability project.

Wanted: Webmaster for the Dayton ASHRAE Website to take over from Russ Marcks.

Qualifications: Ability to use web authoring software to update and freshen the website and add new, interactive features desired by members.

Wanted: Newsletter editor to work with Lorraine Kapka and maybe assume full responsibility next year.

Qualifications: Access to Publisher and Adobe Acrobat a necessity. Takes just a few hours a month. Will train if you have the software.

Each of these positions requires just a few hours a month. Please contact President Jason Gillespie (jasondavidgillespie@gmail.com) or any Board Member (see page 2 for directory).



Employers



Have a Job to Fill?

Advertise in your Dayton ASHRAE Newsletter and on the Dayton ASHRAE Website.

Insert a business-card size ad for \$20 a month or \$100 a year.

All proceeds to Dayton ASHRAE Scholarship Fund.

Send ad copy to : Lorraine.Kapka@Sinclair.edu

Dayton ASHRAE Members

Need a Job?

Submit your profile to your Dayton ASHRAE Newsletter.

We'll print it for FREE!

Limited to 250 words plus contact information.

Send ad copy to : Lorraine.Kapka@Sinclair.edu

Volunteers Needed

Ready to Give Back to YOUR Industry?

Dayton ASHRAE needs members to work on committees.

Contact Jason Gillespie at:

Jasondavidgillespie@gmail.com

2012-2013 ASHRAE RESEARCH Dayton ASHRAE

Contribution Form



2011-2012 saw ASHRAE continue its leadership in developing standards and guidance for the design, operation and maintenance of healthy, energy-efficient buildings. The Dayton Chapter again met their goal to raise money for research, setting a new high. Research dollars help fund the science behind the handbooks and standards, making sure that guidance has a solid foundation.

This industry gives all of us our livelihood. ASHRAE's research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, I am asking you to help fund future HVAC&R research and development. Together, we can all make a difference!

Amount enclosed: ___ \$250 ___ \$150 ___ \$100 ___ \$50 ___ Other (specify) _____

Name: _____

Address: _____

Phone Number: _____

Member Number (If known): _____

Donation in memory of: _____

Do you want to be recognized in the Dayton newsletter as a contributor? (circle) YES NO

Mail completed form with your check, payable to ASHRAE Research to:

Denny Lammlein
29 Sandelwood Street
Springboro, OH 45066

Invest in the Future:

Support ASHRAE Research!



For Release:
Contact: Jodi Scott, Public Relations
678-539-1140
jscott@ashrae.org

March 28, 2013

26 Proposed Addenda to ASHRAE/IES Energy Standard Open for Public Comment

ATLANTA – With the 2013 version of the ASHRAE/IES energy standard scheduled for publication later this year, many changes are being proposed to strengthen its requirements.

As such, 26 proposed addenda to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, are open for public comment.

“As we move toward publication of the 2013 standard, the 90.1 committee is considering many changes to reduce building energy use and cost,” Steve Skalko, chair, said. “The proposed addenda reflect a variety of changes to the standard, many of which are the result of earlier public review comments. These changes contribute to our goal of making the standard 40 to 50 percent more stringent than the 2004 standard.”

The energy cost goals for the 2013 standard are:

- Regulated Loads only – 50 percent target includes only regulated energy end use loads as included in the Standard 90.1-2004 baseline.
- Whole building – 40 percent target, which includes all energy end uses

Twenty-two proposed addenda are open for public comment from March 22-April 21, 2013. For more information, visit www.ashrae.org/publicreviews. They are:

- aa mandates direct digital control (DDC) for certain applications in both new buildings and retrofits where cost effective and defines the minimum capability of mandated DDC systems.
- ba adds requirements for use of gas condensing service water heaters in newly constructed buildings.
- bb reduces the occupancy threshold for demand controlled ventilation from greater than 40 people per 1000 square feet, with exemptions for certain occupancies, to equal to or greater than 25 people per 1000 square feet, expanding the occupancies where demand controlled ventilation is required.
- bc corrects the calculation of hotel and motel type guestroom spaces based on an error in applying the room geometry of the space type, which then changes the associated whole building lighting power densities (LPDs) for hotel and motel.
- bd modifies the designation for the types of facilities eligible for the higher LPDs based on use of space for those needing additional lighting for age and other related eye issues.
- be corrects an error for the addition of HVAC systems to heated only storage areas in Appendix G. The single zone systems would be assigned to a single thermal zone vs. being grouped with the multiple zone systems.
- bf uses the new SS-EN ISO 25745-1:2012 to add a movement energy efficiency requirement for elevators.
- bg revises the requirements for the use of exhaust air energy recovery as defined in 6.5.6.1. In 2012, addendum bt expanded down the range for the use of exhaust air energy recovery to 10 percent ventilation rates. In addition, energy recovery was removed for climate zones 3B, 3C, 4B, 4C, and 5B for >70 percent outside air. These changes were based on the latest performance and economics analysis,
- bh ensures revisions to a table and new footnotes are consistent with Section 303 of the Energy Independence and Security Act of 2007 (EISA 2007), which increased the federal minimum efficiency standards for residential-sized boilers. Section 303 increased the minimum annual fuel utilization efficiency for gas and oil-fired boilers, and established design requirements for certain types of new boilers manufactured or imported for use in the United States. All of the efficiency and design requirements took effect for equipment built on or after Sept. 1, 2012.
- bi provides two compliance paths for high speed doors within the Mandatory Air Leakage requirements. It also clarifies which test glazed overhead doors are to follow.

CONTINUED ON NEXT PAGE

The Only Specialty
Jobs Board for
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Jobs

Welcome to ASHRAEJobs.com
Your source for HVACR
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For Release:
Contact: Jodi Scott, Public Relations
678-539-1140
jscott@ashrae.org

March 28, 2013

26 Proposed Addenda to ASHRAE/IES Energy Standard Open for Public Comment (Continued)

- db addresses an error in addendum bb contained within Table 5.5-3, under the category “Floors, Steel Joist” and in the cells assigned to the “residential” occupancy.
- dc clarifies that rooms within suites should be handled individually when one becomes empty.
- dd clarifies the exception to re-roofing and roof re-covering.
- de revises the design point for waterside economizers in computer room applications.
- df replaces current minimum performance requirements for packaged Computer Room Air Conditioners shown in Table 6.8.1k with a new table based on Standard 127-2012. The standard had referenced the 2007 version of Standard 127, Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners. AHRI and member companies have agreed to test their equipment under the new standard. The test configurations were increased and the performance values updated accordingly.
- dg changes the reference to the 2012 ANSI/CRRS Standard from the 2010 version.
- di prohibits use of fossil fuels and electricity for humidification above 30 percent RH and dehumidification to 60 percent RH, except in special circumstances. Where control is required within the 30-60 percent region, a deadband is required. Where even tighter control is mandated, the system is exempted.
- dj offers an increase in electrical/mechanical rooms in cases where the current proposed allowance of 0.42 W/sqft is not considered sufficient to provide needed vertical and horizontal illuminance given the varied configuration of electrical/mechanical rooms. The additional allowance would have to have separate control and could not be traded off to other spaces in the building.
- dk eliminates the exemption for wattage used in spaces where lighting is specifically designed for those with age related or other medical condition related eye issues where special lighting or light levels might be needed.
- dl corrects the calculation of hotel and motel type guestroom spaces based on an error in applying the room geometry of the space type and combines them into a single value since the calculated value are determined to be the same for code purposes.
- dn revises the requirements for the use of hot gas bypass as defined in section 6.5.9 and table 6.5.9.
- do is updating referenced standards in various provisions covering mechanical systems in 90.1-2010.

In addition, three addenda under review that received public comments in earlier reviews have been revised and are open for public comment from March 22-May 6, 2013. They are:

- ac provides for two compliance paths with regard to utilizing air spaces in conjunction with reflective surfaces.
- bm makes the baseline building in Appendix G equivalent to 90.1-2004 for interior lighting design.
- cl modifies IEER requirements for the air cooled air conditioners ≥65,000 Btu/hr and < 135,000 Bu/hr to increase the IEER from 12.8 to 12.9 for electric resistance heating units and 12.6 to 12.7 for gas fired units. It also revises air cooled heat pumps ≥65,000 Btu/hr and < 135,000 Bu/hr for electric resistance heating units from 12.0 to 12.2 and from 11.8 to 12.0 for gas fired units.

In addition, one addendum opens for public review on March 29, closing April 28.

- Addendum cv develops baseline energy use guidance for public assembly spaces toward assessing energy performance achievement of a proposed building. Public assembly spaces are typically designed and operated differently than surrounding spaces.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

###



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Engineering Careers





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**Senior Engineer /
Project Manager**

**SUSTAINABILITY &
ENERGY SERVICES
DEPARTMENT**



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Join Us!
May 9, 2013



ASHRAE GOLF OUTING

Heatherwood Golf Course

Springboro, Ohio

Shotgun Start @ 1:30 PM

Dinner is at 6:30 PM

Don't Miss Out - Sign Up Now!

Before May 1, 2013

Dinner and Golf \$100 per Player

Dinner Only \$25 per Person

After May 1st

Dinner and Golf \$110 per Player

Dinner Only \$30 per Person

RSVP Attached Sign Up Sheet to:

Kerry Ward [kerryward@habegger.com)

**Reminder: Proceeds go to
ASHRAE'S Research Program & Scholarship Program**



**ASHRAE GOLF OUTING
MAY 9, 2013**



RESERVATIONS:

EMAIL TO:

Kerry Ward at the Habegger Corporation
kerryward@habeggercorp.com

or

MAIL TO:

Kerry Ward
The Habegger Corporation
632 E. First Street
Dayton, OH 45402

Golf and Dinner:

#1 _____ #2 _____

#3 _____ #4 _____

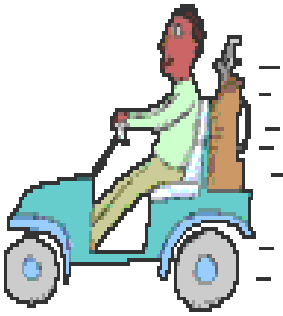
Dinner Only:

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#2 _____

#3 _____

#4 _____



ASHRAE GOLF OUTING

May 9, 2013

Hole Sponsorship

Email to: Kerry Ward

kerryward@habeggercorp.com



MAIL TO:

Kerry Ward

The Habegger Corporation

632 E. First Street

Dayton, OH 45402

Hole Sponsorship: \$100.00

Your Company Name on a sign at a Hole

Company Name _____

Name _____

**Door Prize Donations: Suggestions: Golf Balls: Golf Hats: Golf Jacket /
Shirt: Gift Certificates: Other**

(Prize---) _____

SPONSORSHIPS:

If you would like to provide the following Sponsorships, contact Kerry Ward for details:

kerryward@habeggercorp.com

(937) 853-1303 or Cell Phone: (937) 673-1413

- ◆ Drinks on the Course
- ◆ Lunch for the participants



All Sponsors recognized in the program distributed to all participants!

www.ashrae.org/abepwebcast

Brought to you by the ASHRAE Chapter Technology Transfer Committee



Presenters



Thomas E. Watson,
ASHRAE President



Drury Crawley, Ph.D



Jim Kelsey, LEED AP,
P.E., BEAP



Christopher Mathis

Assessing Building Energy Performance:

From Principles to Practice

April 18, 2013 | 1:00 PM-4:00 PM EDT

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

How to Participate

- You may register to view the webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the "Participant Reaction Form" by May 2, 2013.

For more information about the program, presenters, continuing education credits, sponsorships, and ABEP resources, please visit us at www.ashrae.org/ABEPwebcast OR scan this tag with your smart phone.



Get the free mobile app at
<http://gettag.mobi>



ASHRAE Learning Institute

2013 Spring Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.

Basics of High-Performance Building Design

Mon, March 18, 2013 – 1:00 pm to 4:00 pm ET

Air-to-Air Energy Recovery Fundamentals

Wed, March 20, 2013 – 1:00 pm to 4:00 pm ET

Advanced High-Performance Buildings Design

Mon, March 25, 2013 – 1:00 pm to 4:00 pm ET

Air-to-Air Energy Recovery Applications: Best Practices

Wed, March 27, 2013 – 1:00 pm to 4:00 pm ET

Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

Humidity Control Troubleshooting

Mon, April 22, 2013 – 1:00 pm to 4:00 pm ET

Combined Heat & Power: Creating Efficiency Through Design & Operations

Wed, April 24, 2013 – 1:00 pm to 4:00 pm ET

Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 29, 2012 – 1:00 pm to 4:00 pm ET

The Commissioning Process & Guideline 0

Wed, May 1, 2013 – 1:00 pm to 4:00 pm ET

Fundamental Requirements of Standard 62.1-2010

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

* Take 3 or more courses and save 20% off registration!

HVAC Design Training

2 Courses, 5 Days of Intense Instruction

March 18-22, 2013 • June 3-7, 2013 • August 12-16, 2013

HVAC Design: Level I - Essentials

This training provides intensive, practical education for designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

Developed by industry-leading professionals, the training course provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Creating Effective, Highly Skilled Engineering Team Members

- Gain knowledge to make immediate contributions to design projects
- Participate in in-depth, practice-focused training
- Learn from industry leaders selected by ASHRAE
- Receive free bonus resources valued at over \$200

Visit www.ashrae.org/hvacdesign to register

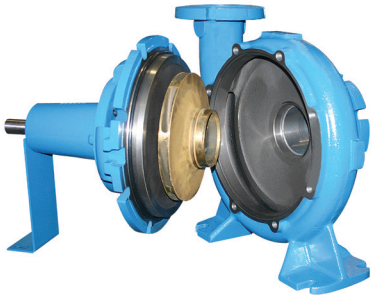


PUMPS & SYSTEMS

brands you trust.

Free Pumps - Beta Program

Crane Pumps & Systems is launching their new **Weinman 575 End Suction Pump**. Weinman 575 Series end suction pump is designed to minimize capital, maintenance and operating expense. The 575 Series provides a broad range of sizes that offers the high efficiency of a tangential discharge pump and the serviceability of a back pull-out design.



We are in the final phase of product testing and looking for local sites to participate in our beta testing program. There will be no cost to you for the models!

Seven models are available for immediate shipment.

- Four sizes with a 12" impeller (4R, 3R, 2.5R, and 1.5R)
- Three sizes with a 9.5" impeller (2.5Q, 3Q and 4Q)

**Interested?
Please contact us
at (937) 778-8947
choose option
2 for additional
information.**

Weinman product launches are supported by 157 years of experience and market leading customer service!

Crane Pumps & Systems • www.cranepumps.com • 420 Third Street • Piqua, OH • 45356