January is Scholarship Month!

Now that I have your attention:

- Two $500 scholarships available
- Members of Dayton ASHRAE Chapter, their immediate family, or student ASHRAE members
- Must have completed 12 college hours towards their degree
- See attached flyer or www.daytonashrae.org
- Application must be postmarked by January 31, 2013

COMING EVENTS:

- January 19    Holiday Party (this is a Saturday evening)
- February 11   February Lunch Meeting at Engineer’s Club
- February 20   Board Meeting at Heapy Engineering, 8 AM
2012-2013 OFFICERS

President
Jason Gillespie  313-8843
Point-to-Point Systems
jasondavidgillespie@gmail.com

President-Elect
Kyle Kurtz  264-4343
Waibel Energy Systems
Kyle.kurtz@trane.com

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Heapy Engineering
jjtaylor@heapy.com

Secretary
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Waibel Energy Systems
Evan.nutt@trane.com

Past President
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stevecoppock@habeggercorp.com

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Larraine.kapka@sinclair.edu

Research Promotion
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dlammlein@woh.rr.com

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Heapy Engineering
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Larraine Kapka  512-4501
Sinclair Community College
larraine.kapka@sinclair.edu

A Note from the President:

Happy New Year! I hope you all had as wonderful a 2012 as I did, and I hope everyone is looking forward to what the next twelve months can bring. I’d like to thank everyone for coming out on December 10th to see Mr. Jack Connell speak for our lunch meeting.

January is Scholarship Month – our Dayton ASHRAE Scholarship accepts applications until January 31, 2013. This is the third year and we would like to see even more applications than in the past. Please encourage anyone you know who may be qualified to apply – sometimes that little extra nudge is all they need. See page 4 for details.

Looking ahead, we have an exciting presentation on dynamic glazing at our February lunch meeting. We have invited the local AIA to join us for this meeting – encourage all of your architect friends to come out for an AIA-approved session (PDHs awarded).

For those of you who RSVP’d for the holiday party, I will see you there. Otherwise, see you in February!

Jason Gillespie, President, ASHRAE Dayton Chapter

Get involved in YOUR Dayton ASHRAE!
Now recruiting for members interested in:
Chapter Programs
Chapter Service Positions (Secretary, Treasurer)
Contact Kyle Kurtz kyle.kurtz@trane.com
Be a part of something special!

SAVE THE DATE
April 18, 2013, 1:00 pm - 4:00 pm EDT
FREE ASHRAE Webcast
Assessing Building Energy Performance:
From Principles to Practice

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 8.

See the new 2012-2013 research promotion honor roll attached!
# Dayton ASHRAE History Corner

By Historian Tom Ferdelman

## Dayton Chapter ASHRAE History 1997/98

**President**
- Dave Deger  
  Employer: Air Control Equipment

**President Elect**
- Jim Hocker  
  Employer: Stan & Assoc.

**Vice President**
- Dave Patterson  
  Employer: Patterson Equipment Co.

**Secretary**
- Jeff Evans  
  Employer: Rieck Mechanical

**Treasurer**
- Joe Ferdelman  
  Employer: Heapy Engineering

**BOD**
- All Officers & Committee Members

### Student Activity
- Russel Marcks  
  Employer: Sinclair Community College

### Research Promotion
- Mark Steiner  
  Employer: Barge Waggoner Sumner & Cannon

### Membership
- Bruce Knapp  
  Employer: Trane Company

### TEGA
- Ken Baily  
  Employer: DP&L

### Refrigeration
- Jeff Greenwalt  
  Employer: Trane Company

### Historian
- Tom Ferdelman  
  Employer: Heapy Engineering

### News Letter
- Dave Deger  
  Employer: Air Control Equipment

**General Information**

Meeting's were held at the Dayton Engineers Club  
CRC Held in Cincinnati

Regional Director: Eric Schwenker

### Programs

- **10/14/1997**
  - Joint Meeting w/ Cincinnati Chapter

- **11/10/1997**
  - Tech Meeting  
    History of Fans  
    Bill Bissmeyer

- **12/12/1997**
  - Spouses Night  
    Dayton Playhouse  "I'll Be Home For Christmas"

- **1/12/1998**
  - Tech Meeting  
    DP&L Center  
    Lunch  
    Ohio School Facility Commission  
    Franklin Brown

- **2/9/1998**
  - Tech Meeting  
    Electric Deregulation  
    Bruce Nickel  
    DP&L  
    DP&L

- **3/9/1998**
  - Plant Tour  
    WSU Nutter Center Ice Plant

- **4/13/1998**
  - Tech Meeting  
    Engineers Club  
    Lunch  
    Fume Hood Ventilation  
    Russ Dulin  
    Industrial Air/Bayley

- **5/15/1998**
  - Golf Outing  
    Larch Tree

**See Attached**

- 122 Members

**Presidential Award Of Excellence**
Eligibility:

1. Undergraduate or graduate degree candidates enrolled in Engineering, Engineering Technology, Energy Engineering, Facilities Management, Construction Management, or similar degree leading to a career in the construction industry.
2. Member of Dayton Chapter of ASHRAE (paying local dues) and their immediate family members, or Student ASHRAE member.
3. Have completed 12 quarter hours or semester hours towards their degree.

Application Available at www.daytonashrae.org
Questions? Larraine.Kapka@Sinclair.edu
Application Must be Postmarked by January 31, 2013

Please help ASHRAE promote the availability of more than 20 Society scholarships for the 2013–2014 school year, available to high school seniors entering college through senior undergraduate engineering students.

Two High School Senior Scholarships—$3,000 each  Applications due May 1, 2013
Three Engineering Technology Scholarships—$3,000 each  Applications due May 1, 2013
Six Regional and University-Specific Scholarships—$3,000–$5,000 each  Applications Due December 1, 2012
11 Undergraduate Engineering Scholarships—$3,000–$10,000 each  Applications Due December, 2012

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships.
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 Larraine 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).
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: Larraine.Kapka@Sinclair.edu

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: Larraine.Kapka@Sinclair.edu

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!
ASHRAE Seeks Input on Revisions to Data Centers in 90.1 Energy Standard Scope

ATLANTA – Addendum cs to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, is open for advisory public review from Jan. 4-Feb. 3, 2013. The addendum proposes changes to definitions for computer rooms and data centers in Standard 90.1 to create a distinction between facilities covered by 90.1 and those which are intended to be under the scope of ASHRAE Standard 90.4P, Energy Standard for Data Centers and Telecommunications Buildings, proposed by ASHRAE in late 2012. The definition proposed for computer rooms more closely aligns with ASHRAE Standard 100, Energy Efficiency in Existing Buildings, and the U.S. Energy Information Administration’s Commercial Building Energy Consumption Survey (CBECS). In addition, the definition is consistent with Uptime Institutes’ “Tier Standard: Topology” and the Telecommunications Industry Association ANSI/TIA-942 class rating for low-risk Tier I data centers. High risk data centers such as those designed as Tier II or greater per ANSI/TIA942 or ones with mechanical cooling system redundancy are expected to be covered by the 90.4P standard now under development.

Steve Skalko, chair of the Standard 90.1 committee, said with the development of Standard 90.4P feedback is needed from the industry to clarify the scope and definitions of each standard. Energy conservation requirements for high risk data centers, initially covered by Standard 90.1-2010, are expected to be detailed in the 90.4P standard. Computer rooms, which can include low-risk data centers, would remain under the scope of Standard 90.1. “The costs and approaches used in determining appropriate HVAC applications used to achieve energy efficiency are different,” he said. Computer rooms, which by the proposed definitions include low-risk data centers, are usually associated with electronic equipment spaces that are not considered risks and therefore money is typically not spent to install levels of component and systems redundancies. Computer rooms may be ancillary functions and add loads in a larger building and often are served from the same central cooling plants.

Computer rooms are designed to provide local data processing and information storage for in-house end users and clients, which the owner has deemed very low risk. Risk choices are made to reduce total life cycle costs associated with not only system selection and operation, but potential failures, business interruptions, continuity plans and overall company specific business model features like staffing requirements, according to Skalko. By comparison, data centers designed as Tier II or greater per ANSI/TIA942 or ones with mechanical cooling system redundancy carry more risk, he said. Industry studies indicate downtime associated with such risk can cost tens of thousands of dollars a minute, with the potential to negate both past energy savings and future business viability in a single act. The demand for data centers has grown, as the electronic equipment needs have evolved with the huge demand for data processing services and storage in the age of digital devices. A data center has the function to support the electronic equipment that commonly provides services to outside or external clients, hence the heightened awareness of risk and risk mitigation approaches employed. Data centers can support everything from an individual enterprise all the way to hosting services on the internet and must provide maximum operational run time on a 24-7 basis. These facilities are built with multiple levels of component redundancy, providing at least an N+1 mechanical cooling capacity redundancy, if not greater, as well as operational resiliency (increased staffing hours and expertise), Skalko said. To comment or to learn more, visit www.ashrae.org/publicreviews.

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. ###
STUDENT APPLICATION FOR ASHRAE / DAYTON CHAPTER SCHOLARSHIP

(Please Type)

Name of Student: _______________________________ Date of Birth: _____  _____  _____

Mo.      Day      Year

Permanent Address: __________________________________________________________

__________________________________________________________

__________________________________________________________

Phone: _______________________  E-Mail Address: _________________________

Fax: ________________________

Name of and Relationship to Dayton Chapter Member:  _________________________________

_____________________________________________________________________________

Student’s Country of Legal Residence: _____________________________________________

College/University Attending: ____________________________________________________

Major and Minor (if applicable) Field of Study: _________________________________________

Student’s Year in College: ______________________________________________________

Indicate expected month and year of college graduation: _________________________________

______________________________________________ Date: _______________________

Signature

The following attachments must be included:

1. A personal recommendation from a faculty member of the school that the student is attending that describes the student’s academic standing, character, and contribution to the Industry.
2. Current transcript.
3. A 100-200 Word Statement from the student explaining why the student wishes to study a discipline that relates to the Construction Industry.
4. List of Activities / Outside of the Industry and University
5. List of Activities associated with Industry and/or University
6. List the Degree(s) for which the scholarship will apply

Application must be postmarked by January 31, 2013 and should be mailed to:

ASHRAE, Dayton Chapter
PO Box 3202
Dayton, OH 45401
Research Promotion Honor Roll 2012-13

Corporations

**PLATINUM ($1000 or more)**
Dayton ASHRAE Chapter

**GOLD ($500 or more)**
Waibel Energy Systems

**SILVER ($250 or more)**

**BRONZE ($150 or more)**
Allied Supply Company, Inc.—Dayton

**Individuals**

**HONORS ($100 or more)**

Jeremy Fauber
Tom Ferdelman
Jason Gillespie
Larraine Kapka
Michael Kennedy
Bruce Knapp
Kyle Kurtz
Dennis Lammlein
Russ Marcks
Steven Meier
Evan Nutt
Bob Patterson
Jake Taylor

**HONORABLE MENTION**

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Kyle Schroeder
Concurrent with the ASHRAE Winter Conference . . .

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