ASHRAE™

DAYTON CHAPTER ASHRAE

ISSUE IV | 2017

2017-2018 OFFICERS

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Habegger Corporation

Secretary
BRIAN TURNER
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ElitAire

UPCOMING EVENTS

October 18th
Board of Governors
8:00 AM, Heapy Engineering

November 13th
Chapter Dinner Meeting
Engineer's Club

November 15h
Board of Governors
8:00 AM, Heapy Engineering

See Events Calendar on Page 8

Membership Promotion & RP Night

October 9th

Tech Session Presentation

5:00 PM to 6:00 PM

Development of Applications for AHRI 920
Presenter: Kevin Muldoon, HVAC Engineering Product Leader for KCC Manufacturing

Engineer's Club
110 E Monument Ave
Dayton, Ohio 45402

Social Time: 5:30 PM to 6:30 PM

Dinner: 6:30 PM

Main Presentation

7:00 PM

Retro-Commissioning for Energy Savings
Presenter: Hoy Bohanon, Principal at Hoy Bohanon Engineering

Please RSVP to JPFauber@heapy.com

By Thursday 10/5 @ Noon
Specific dietary options are available upon request

COMMITTEE CHAIRS

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Heapy Engineering

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GRASSROOTS
Open Chair Position
Contact Rob Mauro for Inquiries

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BOARD OF GOVERNORS

JEREMY FAUBER
Heapy Engineering
RICK PAVLAK
Heapy Engineering
LARRAINE KAPKA
Sinclair College

FROM THE PRESIDENT

Congratulations to Steve Meier and his misfit band of Bocce Ball Players for their improbable run to the 3rd annual Dayton ASHRAE Bocce Ball Scholarship Championship. It was truly a miracle that they were able to pull off the victory. All benefits raised by this outing will go towards our 2018 Dayton ASHRAE Scholarship. Thank you to Solid Blend Technologies and SKM Services for providing the food and drinks for this event! We could not have done it without you.

Fall is upon us and The Dayton ASHRAE Board of Governors have prepared an exciting 2017-2018 year for its members. Engineers, make sure to show up for the technical sessions for each meeting this year and this will help you fulfill your continuing education requirements for this year. See the newsletter for times, subjects, and locations.

My goals for this year as Dayton ASHRAE President include two of the following items: (1) Increase regular and student membership by 5% AND (2) Increase the number of applications for the Dayton ASHRAE Scholarships. We are offering 3 scholarships this year and we need to get the word out to potential applicants.
I challenge each member to help Dayton ASHRAE accomplish its goals for the 2017-2018 year. Bring a colleague, friend, or student to an upcoming meeting. Let a Student know about the upcoming scholarships being offered.

Help us keep Dayton ASHRAE Great! *Rob Mauro* — **President**

REMEMBER WHEN...

(1992-1993)

President:	David Schmenk	Montgomery County
Pres. Elect:	Chris Hampel	CAC Distributing Carrier
Vice Pres.:	Mark Nieheisel	Uptime Solutions
Secretary:	Dennis Lewis	BWSC
Treasurer:	Josh Mosgo	Siebe Barber Colman
BOD :	Phil Van Styn	Heapy Engineering
	Dennis Helmig	Helmig Leinisch
	Rick Huff	Weber Huff
	Tom Homan	Allied Supply
Education:	Russ Marcks	Sinclair College
RP:	Dave Patterson	
Membership:	Dave Deger	Curtis Fan Sales
Energy & Tech:	Mack Robets	Johnson Service
Historian:	Richard Elliott	Lorenz & Williams
Newsletter:	David Schmenk	Montgomery County

MEMBERSHIP

Employers!

Have an Open Position?

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

Please inquire for pricing based on ad size and term length.

All proceeds to Dayton ASHRAE Scholarship Fund.

Send inquiries to:
BWSchenck@heapy.com

Like us on Facebook!

New Members

The Dayton Chapter is happy to welcome its newest members. If you see them please give them a warm welcome!

Winfield Morter
Aaron Weber
Ryan Moenter
Amr Alhajjaji

Membership Recognition

We would like to recognize the following members who have been with ASHRAE for the following years!

10 Years — Lawrence Sherman, Steven Walton
5 Years — Randy Tebbe

Membership Promotion Committee

Looking for a way to get involved with your local ASHRAE chapter and meet new people? The membership promotion committee is looking for volunteers to join the committee. The committee's primary responsibility is to recruit new members and retain existing members. If you are interested in serving please contact Jeremy Fauber at JPFauber@heapy.com.

GET INVOLVED

Go Local or National... Apply for Membership on a Local Committee or 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.

Dayton Chapter ASHRAE

daytonashrae.org

Please select:

____ Local member ($95) **____ Local student member ($30)**

Your Name

Home Address

City **State** **Zip**

( ) - **Home Phone**

( ) - **Alternate Phone**

Home e-mail address **Alternate e-mail address**

Student members only:

Student: School _____ Degree _____ Approximate Graduation Date _____

SEND NEWSLETTER TO: Home email address Alternate email address

I prefer Lunch Meetings_____ I prefer Dinner Meetings_____ I have no preference _____

Chapter achievements are accomplished through active committee involvement. If you would like to promote your Society by serving as a committee chair or assist on one of the chapter committees, please indicate in which committee you are interested below. Please indicate your first preference by number 1 and so on.

___ Education ___ Membership ___ Research ___ Historian ___ Newsletter ____ Website

___ CTT (Refrigeration; Technical, Energy & Government; Programs) ___ Golf Outing ____ Communication

Full member: $95 per year includes 6 lunch/dinner meetings and the holiday party.
Student member: $30 per year includes 6 lunch/dinner meetings (excludes holiday party).

Please return this application and a check or money order in the amount of $95 (member) or $30 (student member) made payable to Dayton ASHRAE to:

DAYTON ASHRAE, PO Box 3202, Dayton, OH. 45401

RP HONOR ROLL

INDIVIDUALS Begins at $100

Tom Ferdelman
Jeremy Fauber
Nathan Lammers
Robert A. Mauro
Thomas E Mastbaum
Steven N Meier
Evan Nutt
Richard L. Pavlak
Sam Tobias

Major Donor—Antique—$250 to $499

Rieck Mechanical Services

RP NEWS

Make YOUR donations by following the directions on Page 6.

Our goal is

$18,600

in Total Research Dollars including funding for Foundations and Scholarship Promotion.

$1,300

(7% of Goal To-Date)

Let's Blow THE LID OFF Again!

Our Thanks once again for to the efforts of many, especially our generous donors, Golf Outing participants, and supporters we hit an incredible 126% of Our committed Goal for ASHRAE Research and Education for the 2016-17 Campaign Year! As many of you know who were contacted personally this Month's meeting is dedicated to membership AND to Thanking our many donors for a year that exceeded expectations. Please join us on Monday, Oct. 9 at the Engineer's Club so you can be properly recognized!!

2017-2018 ASHRAE RP
Dayton Chapter ASHRAE

2016-2017 saw ASHRAE continue its leadership in developing standards and guidance for the design, operation and maintenance of healthy, energy efficient buildings.

Funds to accomplish this research are received from members and companies active in the industry. Once again the Dayton Chapter was among the leaders in Region V, submitting a new high of $17,723. This year's Goal is $18,600.

The HVAC Industry gives us all our livelihood. ASHRAE's research and educational programs are what keeps our industry and professions on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, we are asking you to help fund future HVAC&R research and development by donating this year. Thanks so much for your help in advance!

Together we can all make a difference!

Amount Enclosed: ____$500 ____$250 _____$150 _____$100 _____$100 _____$50

$_____ Other (Please Specify)

Name: _____

Street Address: _____

City/State/Zip: _____, _____, _____

Phone Number: (_____) - _____

Member Number (if known): _____

Donation in Memory of: _____

Do you wish to be recognized in the Dayton ASHRAE Newsletter as a Contributor? __YES __NO

Donate NOW!! By clicking this link: https://xp20.ashrae.org/secure/researchpromotion/rp.html

Or: Mail this completed form with your check made out to *ASHRAE RP* to:

ASHRAE Dayton Chapter
ATTN: Research Promotion
P.O. Box 3202
Dayton, OH 45402-3202

ASHRAE NEWS

ATLANTA – ASHRAE is proud to be an association sponsor of the U.S. Department of Energy Solar Decathlon 2017, to be held Oct. 5-15 in Denver, Colo. at the 61st & Peña Station on the University of Colorado A line commuter rail connecting Denver International Airport to downtown Union Station.

The Solar Decathlon is a collegiate competition of 10 contests that challenge student teams to design and build full-size, solar-powered houses over the course of two years. The winning team will combine the best blends of design excellence and smart energy production with innovation, market potential, and water and energy efficiency.

As a long-time sponsor, ASHRAE has offered guidance and support to the Solar Decathlon by hosting student receptions, providing meals, participating in event committees, leading workshops and serving as judges.

"Solar Decathlon is more than a competition. It's a hands-on opportunity for students to design, test, build, and see their buildings work," says Kent Peterson, Fellow/Presidential ASHRAE Member, and Solar Decathlon 2017 judge. "The students participating in this competition represent the future leaders and innovators of the built industry. We can learn from their innovation, enthusiasm and dedication and ASHRAE is eager to support them in achieving their goals."

ASHRAE Student Branch members are participating in the competition on the following teams:

- **Las Vegas:** University of Nevada, Las Vegas(Las Vegas, Nevada)
- **Maryland:** University of Maryland (College Park, Maryland)
- **Missouri S&T:** Missouri University of Science and Technology (Rolla, Missouri)
- **Team Alabama:** University of Alabama at Birmingham and Calhoun Community College (Birmingham, Alabama)
- **Team Daytona Beach:** Embry-Riddle Aeronautical University and Daytona State College (Daytona Beach, Florida)
- **UC Berkeley/U of Denver:** University of California at Berkeley and University of Denver (Berkeley, California)
- **UC Davis:** University of California, Davis (Davis, California)

Other competing teams include:

- **Netherlands:** HU University of Applied Science Utrecht (Utrecht, Netherlands)
- **Northwestern:** Northwestern University (Evanston, Illinois)
- **Swiss Team:** École Polytechnique Fédérale de Lausanne, School of Engineering and Architecture Fribourg, Geneva University of Art and Design, and the University of Fribourg (Lausanne, Switzerland)
- **Wash U St. Louis:** Washington University (St. Louis, Missouri)

In response to an evolving industry and changing market conditions, this year's competition has been revised to include contests that challenge collegiate teams to address building science, home comfort, and the ability to achieve net zero energy consumption during the competition by generating as much electricity from solar as they use.

Solar Decathlon student teams were provided with a variety of resources and publications to develop plans for the solar houses including ASHRAE GreenGuide, HVAC Simplified and ASHRAE Standards.

"ASHRAE has a long history dedicated to sustainability and it's encouraging to see the competition's progression as the built industry continues to change and grow," said ASHRAE President-Elect Sheila Hayter, Fellow ASHRAE and Solar Decathlon 2017 judge. "Our sponsorship underscores ASHRAE's commitment to produce net zero energy buildings. It's a pleasure to witness these students shape the future of the built environment through this unique experience."

Additionally, ASHRAE members in the Denver area will serve as volunteer greeters, docents, visitor liaisons, education day(s) mentors, water delivery and retrieval support, and more.

Solar Decathlon 2017 will also feature a sustainability expo, professional development and consumer workshops, and middle school education events. The Solar Decathlon village and competition houses are open to the public free of charge for nine days over two long weekends.

For more information on Solar Decathlon 2017, please visit www.solardecathlon.gov.

EVENT CALENDAR

November 13, 2017 – Chapter Meeting (Dinner)
Tech Session – Applied Psychrometrics
Main Presentation – How to Communicate Technically in a Professional World with Technical Information
Presenter: Doug Zentz, Associate Professor/HVAC Department Coordinator at Ferris State University (ASHRAE DL – non-allocated, as Doug is coming on behalf of the region)
Theme: Student Night

December 11, 2017 – Chapter Meeting (Lunch)
Presentation – Hydronic Balancing: An Overview of Methods and Applications
Presenter – Mike Weisman, Commercial Sales Engineer, Habegger Corp.
Theme: Big Brothers Big Sisters of the Greater Miami Valley will be introducing themselves to the chapter at the beginning of the meeting

January, 2018 – Holiday Dinner (Date and details TBD)

February 12, 2018 – Chapter Meeting (Breakfast)
Presentation: Air Movement for Energy-Efficient Comfort in Conditioned Spaces
Presenter: Presenter TBD, Big Ass Solutions
Theme: Joint AIA Meeting

March 12, 2018 – Chapter Meeting (Dinner)
Presentations:
Tech Session – Title TBD, Xylem/B&G
Main Presentation – Title TBD, Xylem/B&G
Presenter: Presenter TBD, Xylem/B&G
Theme: Membership Promotion

April 9, 2018 – Chapter Meeting (Technical Tour—Location TBD)

May 25, 2018 – Chapter Golf Outing

ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER
Internet: www.ashrae.org/onlinecourses
Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

One-part course (3 hours) **$284** ($219 ASHRAE Member) – -- -- Two-part course (6 hours) **$484** ($359 ASHRAE Member)

NEW! **Fundamental Requirements of Standard 62.1-2016**
Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems
Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Complying with Standard 90.1-2016**
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Variable Refrigerant Flow System: Design & Application**
Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs**
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design & Operation Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Columbus • Denver • Dubai

HVAC Design: Level I – Essentials - Registration is $1,264 ($1,009 ASHRAE Member)

Gain practical skills and knowledge in designing 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 - Registration is $854 ($699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

ASHRAE eLearning

Web-based, On-Demand

eLearning.ashrae.org

ASHRAE

Shaping Tomorrow's Built Environment Today