Mark Your Calendars

April 19th
Board of Governors
8:00 AM, Heapy Engineering

April 20th
ASHRAE Webcast
1:00 PM, Heapy Engineering

March 17th
Board of Governors
10:30 AM, Heapy Engineering

2016-2017 OFFICERS

President
NATHAN LAMMERS
Nathan.Lammers@waibelenergysystems.com
Waibel Energy Systems

President-Elect
ROB MAURO
Rob.Mauro@danis.com
Danis Construction

Treasurer
BRYAN SCHENCK
BWSchenck@heapy.com
Heapy Engineering

Secretary
SUMETA SACHDEVA
SSachdeva@heapy.com
Heapy Engineering

April 10th—Technical Tour
Dayton Children’s Hospital Tower

1 Children’s Plaza
Dayton, Ohio 45404
FREE to All Chapter Members.

$20 to All Others.

Arrival: 5:30 PM
Dinner: 5:45 PM
Tour Begins: 6:30 PM

Please RSVP to
JPFauber@heapy.com
By Friday 4/6 @ Noon

RSVP’s are required. Please carpool where possible as parking availability is minimal. All RSVP’s will be responded to with direction to park in Option Alpha or Bravo. See below for details on parking options and required PPE.

Dayton ASHRAE Tour Directions

- Walking Direction
- Driving Direction

Items to Bring:
1. Hard Hat
2. Safety Glasses
3. Hard sole shoes/boots
*Limited number Hard Hats & Glasses are available onsite.

See below for details on parking options and required PPE.
At our last meeting the speaker discussed opportunities for energy savings in existing chilled water systems. There was a lot of great content about what measures can be implemented to improve chiller plant efficiency. It was relevant info that everyone could take back to use at work immediately, especially with spring and summer on the way. We also held elections for next year. Congratulations to our newly elected Officers and Board of Governors that will be taking over on July 1, 2017. Rob Mauro – President, Bryan Schenck – President Elect, Mike Weisman – Treasurer, Brian Turner – Secretary, and Rick Pavlak, Jeremy Fauber, and Larraine Kapka BOG at Large.

Also, I would like to congratulate local member Dr. Kelly Kissoock and his former students Kathleen Sturtevant, Alex Brogan, Zach Valigosky, and Vijay Gopalakrishnan for being selected to receive an ASHRAE Technical Paper Award for co-authoring “Improving Variable-Speed Pumping Control to Maximize Savings”. The award will be presented at the Annual Conference in Long Beach, California this June.

Our next meeting is April 10 at Children’s Hospital. We are going to be touring their new tower, which should be an interesting and exciting look at a new project in our area. In addition, signups are now open for our golf outing on May 26, 2017.

See you at the Children’s!

Nathan Lammers—President, Dayton ASHRAE
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!
Find news and updates from Dayton ASHRAE

New Members
The Dayton Chapter is happy to welcome its newest members. If you see them please give them a warm welcome!
Stephen Ray  Brian Turner

Membership Recognition
We would like to recognize the following members who have been with ASHRAE for the following years!
(No Membership Milestones This Month)

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, or by calling 937-224-0861.

Go National...
Apply 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 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

Dayton Chapter dues for the Society year beginning July 1, 2015 and ending June 30, 2016.
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
INDIVIDUALS Begins at $100

Jeremy P Fauber
Joe Ferdelman
Tom Ferdelman
Lorraine Kapka
John W. Keefe
Mike Kennedy
Nathan Lammers
Rob Mauro

Thomas E Mastbaum
Steven N Meier
Evan Nutt
John Patterson
Nick Pavlak
Sumeta Sachdeva
Bryan W Schenck
Kyle Schroeder

Antique Donor—$250 or Greater
Uptime Solutions Associates, Inc

Major Donor—Silver $1,000 to $2,499
Waibel Energy Systems
Heapy Engineering

ASHRAE Partner $5,000 or More
Dayton ASHRAE Chapter
Emerson Climate Technologies

Make YOUR donations by following the directions on Page 6.

To date, Dayton ASHRAE has set a very achievable goal for RP this year. Our goal is $16,920 in Total Research Dollars including funding for Foundations and Scholarship Promotion.

$14,803
Which is 87% of our goal!
2015-2016 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 $16,482. This year’s Goal is $16,920.

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

ATLANTA – More than 30 percent energy savings can be achieved using the 2016 version of Standard 90.1, according to recent analysis conducted by Pacific Northwest National Laboratories (PNNL) in support of the U.S. Department of Energy (DOE) Building Energy Codes Program.


PNNL conducted the energy savings analysis, using the 2004 standard as baseline. These results are considered preliminary and are expected to be deemed final in October 2017 when DOE publishes its final determination.

PNNL’s analysis shows for the whole building energy consumptions, national aggregated site energy savings are 34.1 percent and energy cost savings are 34.2 percent, when compared to the 2004 standard.

“For more than 40 years, ASHRAE and IES members have strived to build upon the energy savings measures in each update of Standard 90.1, most recently released in its 10th edition,” Tim Wentz, ASHRAE president, said. “Each year the challenge grows as technology becomes more efficient. That we continue to build upon the savings speaks to the ability of our industry to adapt and transform as those technologies change and more advanced technologies become more cost effective.”

“The Illuminating Engineering Society has actively engaged with ASHRAE since 1975 providing technical support and co-developing standards,” Mark Lien, IES Industry Relations Manager and liaison to the Standard 90.1 committee, said. “Compliance with recommended light levels is verified using a database of luminaires. These baseline products were reevaluated and updated to reflect the market shift toward higher efficiency lighting sources. We are proud of the dedicated members of the Lighting Subcommittee and the Standard 90.1 committee and their significant contribution to the energy savings achieved by the 2016 version.”

--On a nationally aggregated level, building-type energy savings range from 11.9 percent (fast food restaurants) to 48.6 percent (schools) and energy-cost savings from 15.3 percent (large offices) to 49.8 percent (schools). These figures include energy use and cost from the whole building energy consumptions including plug and process loads.

Sixteen different building prototypes were modeled in 17 different climate locations for a total of 272 building types in various climate zones that were incorporated into this analysis.

The energy reduction calculation was achieved through more than 120 addenda incorporated in the standard related to changes to requirements.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 57,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

IES is the oldest and largest educational and scientific society in North America devoted to lighting. Since 1906, the IES has sought to improve the lighted environment by bringing together those with lighting knowledge and by translating that knowledge into actions that benefit the public. A broad variety of programs, including publications, conferences and seminars, have been established to accomplish this mission. IES publishes and distributes authoritative lighting literature authored by committees with the most experienced minds in industry and academia today. For more information about IES, go to http://www.ies.org/.
Volunteer Opportunities

**DATE:** May 20th
We’ll meet up for dinner downtown around 5:30 PM and grab some lawn seats to watch the Dragons beat the Bowling Green Hot Rods. Come just for dinner, just for the game or both. Steve M. will order tickets in advance so email steve@skm.services by May 1st if interested!

**EVENT:** Dayton Dragon’s Game
**LOCATION:** Fifth Third Field

Meeting Schedule

**DATE:** May
**TIME(S):** 11:30 AM – 1:00 PM
**LOCATION:** TBD

**PRESENTATION TITLE(S):** DRG Sustainability Luncheon
**PRESENTER:** TBD
**MEETING THEME:** Special Event

**DATE:** May 26
**TIME(S):** Morning Shotgun Start
**LOCATION:** Troy Country Club
**MEETING THEME:** Dayton ASHRAE Chapter Golf Outing
Save The Date

2017 ASHRAE Dayton GOLF SCRAMBLE

Friday, May 26 @ Troy Country Club
AM Shotgun Start followed by Lunch & Awards

Contact Mike Weisman (michaelweisman@habeggercorp.com) or Nathan Lammers (Nathan.lammers@waibelenergysystems.com) for any of the following SPONSORSHIP opportunities:

- Hole Sponsor (Company Logo on Sign at Hole): $100
- Lunch Sponsor: $TBD
- Drink Sponsor: $TBD
- Non-Alcoholic Drink Sponsor: $TBD
- Cigar Sponsor: $TBD
- Prize Sponsors (Donations, Gift Cards)

Contact Mike or Nathan for any of theses VOLUNTEER opportunities:

- Registration
- Lunch & Awards Setup
- Miscellaneous Activities
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! Complying with Standard 90.1-2016: Envelope/Lighting
Wednesday, April 5, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: HVAC/Mechanical
Tuesday, April 11, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Appendix G
Tuesday, April 18, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Air-to-Air Energy Recovery Fundamentals
Wednesday, May 3, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Air-to-Air Energy Recovery Applications: Best Practices
Tuesday, May 9, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Humidity Control: Basic Principles, Loads and Equipment
Tuesday, June 13, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Humidity Control: Applications, Control Levels and Mold Avoidance
Tuesday, June 20, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE Classified Refrigerants to Meet Society’s Changing Needs
Tuesday, July 11, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application
Tuesday, July 18, 2017 — 1:00 p.m. to 4:00 p.m.

NEW! Advanced High-Performance Building Design
Wednesday, August 9, 2017 — 1:00 p.m. to 4:00 p.m.

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

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

NEW! 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
3 Courses, 7 Days of Intense Instruction
Atlanta • Chicago • Denver • Hartford • Seattle • Toronto

Improving Existing Building Operation - Registration is $599 ($499 ASHRAE Member)
Identify ways to improve existing HVAC system efficiencies and reduce utility expenses while maximizing performance of the building systems. This training details proper system operation and maintenance and introduces methods for evaluating potential system improvements.

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.
Science SATURDAYS

WITH Mister C

Calling all young scientists and innovators:

Join Mister C as he explores the wonderful world of science. These FREE monthly shows will inspire curiosity as children and families explore amazing science concepts!

2017 SCHEDULE  Doors open at 9:00 a.m. | Shows are from 9:30-10:30 a.m.

- March 11: Matter Matters
- April 8: Reduce, Reuse, Recycle
- May 13: Simple Science
- June 10: Exciting Energy
- July 8: Awesome Air
- September 9: Sporty Science
- October 14: Gross Science
- November 11: Amazing Animals
- December 9: Excellent Engineering

Super SPECIAL Science Saturdays Shows will be held at Techfest™ ‘17 in February! Join us either Feb. 18th or 19th!

Experiments and demonstrations like these will surely blow you away!

Exclusively presented at Engineers Club of Dayton! 110 E Monument Ave, Dayton, OH 45402
Improving Existing Building Operation

**When:** May 18 - 19, 2017 | Chicago, IL
**Cost:** $599 (ASHRAE Member: $499)

**Company Discount:** Enroll 3 or more participants from the same company at the same time and SAVE!

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Shaping Tomorrow’s Built Environment Today

Xtreme BOTS
April 14-15 & November 4-5, 2017 at Wright State University
As always, your sponsorship guarantees you for:

- 2 yearly Xtreme Bots competitions
- multi-level exposure to professionals, educators and future employees
- networking connections within the tri-state region