



**Columbus**  
Chapter

NEWSLETTER

Spring 2017 Newsletter

## President's Message

As we approach the end to this ASHRAE year, I want to thank the members of the ASHRAE Columbus Board of Governors who helped make this year a success for our chapter. These volunteers worked hard throughout the year to organize lunch meetings, plan fundraising events, recruit new members and raise awareness in STEM and ASHRAE.

I'm also grateful for the support of our members, companies and friends of the ASHRAE Columbus chapter. Your continued involvement, support and donations are critically important to the success of our chapter and to ASHRAE as a whole.

If you have any feedback or suggestions to improve our chapter, please reach out to me or any member of our Board of Governors. I look forward to seeing you at an ASHRAE Columbus event in the near future!

Casey Kapustka  
2016-2017 President  
ASHRAE Columbus Chapter



## President's Message Cont.

### ASHRAE Society President Tim Wentz Visit

Our Columbus Chapter of ASHRAE recently had the privilege of hosting ASHRAE Society President, Tim Wentz, as part of his tour through ASHRAE Region V. President Wentz's visit began with over a dozen leaders from our local engineering community with a social hour and dinner at Schmidt's Restaurant. ASHRAE Region V Director and Regional Chair, Doug Fick, was also in attendance at the dinner. Thank you to Bryan Crnarich for his efforts in organizing this event!



The following morning, President Wentz spoke to over 20 local YEA (Young Engineers in ASHRAE) members at the Hilton Columbus Downtown. Thank you to our event sponsor, F.F. Leonard! I also want to express my gratitude to Julia Call for organizing this great YEA event!



## President's Message Cont.



President Wentz concluded his trip to Columbus with a lunch meeting visit at the Grange Audubon Center. There, he delivered his presidential theme titled “Adapting Today to Shape Tomorrow”. During this presentation and throughout his visit, President Wentz discussed the directives for this 2016-2017 ASHRAE year.

These included:

Adapt ASHRAE resources to help expand member knowledge and develop the visionaries of tomorrow.

Adapt ASHRAE investments to energize chapters and engage members.

Adapt ASHRAE technology to produce an immediate, direct benefit to members and society.

President Wentz’s presidential address can be viewed at the following link:

<https://www.ashrae.org/society-groups/meet-the-board/2016-2017-bod>.



## President's Message Cont.



Casey Kapustka  
2016-2017 President  
ASHRAE Columbus Chapter



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## ASHRAE Webcast Viewing

ASHRAE Columbus hosted a free viewing of the ASHRAE Webcast titled "Take Control: Using Analytics to Drive Building Performance" on April 20<sup>th</sup> at Refrigeration Sales Corporation. The 18 attendees from our chapter listened in as industry experts discussed the importance of striving for better building operations through improved controls and analytics. Presenters also discussed key elements of controls and analytics for building operations and identified the steps required to deploy analytics in building projects, including commissioning. For more information about the presenters, continuing education credits, and ASHRAE net zero resources, please visit [www.ashrae.org/webcast](http://www.ashrae.org/webcast).

-Casey Kapustka



## Sporting Clays

Hanse Cromer

ASHRAE Columbus Chapter Board of Governors would like to thank everyone who participated in the Sporting Clays Event held on April 7, 2017. Funds raised from the event will support the Columbus Chapter Scholarship Fund. The Columbus Chapter gives an annual scholarship to a local student who is pursuing an education in engineering. Thanks you to all of the Sponsors of the event, especially the Major Sponsors, Direct Air Systems, Inc. and Steffens-Shultz, Inc.

I would also like to thank Black Wing Shooting Center for everything they did to make the event a great success.



The Winners : Team Speer Mechanical



The Crazy Amish Looking Guys! - Major Sponsor Direct Air Systems



Shooting at the Pavilion : 5 Stand



Sporting Clays Station



The guy who ran the show & The events best shooter

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## Research Promotion News

Tony DeCrescenzo

The 2016-2017 RP campaign continues with strong support from the Columbus Chapter! So far, the chapter has raised over \$16,000 for ASHRAE Research Promotion. Way To Go Columbus! Your donations help fund research projects that push our industry forward and every dollar counts!

If you have already contributed to the 2016-2017 RP campaign – thank you on behalf of ASHRAE. If you are still considering contributing, we would greatly appreciate any support you can offer. To contribute, please visit [www.ashraerp.com](http://www.ashraerp.com) and click on the “Donate” button in the upper right hand corner.



# 2017 Golf Outing SAVE THE DATE

9.15.17

Bent Tree Golf Club





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**For more information, visit [carrier.com/39M](http://carrier.com/39M)**

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## First Annual Ohio Capital City Chapter of the Association of Energy Engineers Golf Outing!

Please join us for our First Annual OCCAEE Golf Outing. The outing will be held at Bent Tree Golf Club on Friday, June 23rd. We'll have registration begin at 8:00 with a shotgun start at 9:00. Lunch is included as well as a happy hour afterwards with drinks and appetizers. Enjoy golfing with your peers in the Energy Industry while hopefully winning some prizes.

When: Friday, June 23, 2017 from 8:00 AM to 4:00 PM EDT

Where: Bent Tree Golf Club, 350 Bent Tree Road, Sunbury, OH 43074 (near I71 and US36)

Questions: Contact [rebecca.a.karason@huntington.com](mailto:rebecca.a.karason@huntington.com)

Registration and sponsorship opportunities at <http://tinyurl.com/golfOCCAEE>



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## **Membership Promotion**

James Gallick & Jamie Dennis

### **Advance Your Membership**

Are you a Professional Engineer, or do you have at least 12 years of society-approved experience in the HVAC industry? Either case means that you are eligible to advance your ASHRAE membership from Associate Member to Member. To advance your membership, just update your ASHRAE bio online at [ashrae.org](http://ashrae.org) and send an email to [membership@ashrae.org](mailto:membership@ashrae.org) requesting your membership upgrade.

The benefits of advancing your membership status include the prestige of being able to identify yourself as a Member rather than an Associate Member, eligibility to serve on a technical committee, as a chapter officer, or in a regional position, and qualifying for various society awards. The Columbus Chapter also receives recognition from the society for membership advancements.

Society-approved years of experience are calculated based on the following criteria:

#### **Education**

-1.5 years of credit for each year of completed education for graduates of approved technical curricula.

-1.0 year of credit for each year of education for non-graduates who have completed at least two years of approved technical curricula.

-1.0 year of credit for each year of completed education for graduates of colleges or universities which do not have accreditation. Those holding associates degrees from technical institutions shall also be credited for 1.0 year for each year of education.

#### **Work**

-1.0 year for each year of qualifying work experience in the performance of duties in work related to ASHRAE fields of interest and shall have included research, teaching, design, contracting, engineering sales, or engineering management.

#### **Professional Registration**

-3.0 years of credit for professional registration or license issued by a legally authorized body in engineering or related fields, the requirements of which as to education, examination, and active practice are satisfactory to the Board of Directors.

#### **Join ASHRAE**

If you are not already a member, please visit <https://join.ashrae.org/> to sign up today! If you know someone who would benefit from joining please invite them to become a member as well!

## Membership Promotion - continued

James Gallick & Jamie Dennis

### Welcome New Members

We would like to welcome the following members who have joined the ASHRAE Society since July:

Joseph Carmichael	Ian McClaskie	David Nagel Jr.
Daniel De Los Santos	Rachel Modzelewski	James Schrader
Mark Finken		

Please extend a warm welcome to these new members at upcoming Chapter events!

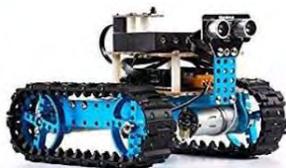
If you have questions regarding ASHRAE Membership, or have an interest in getting more involved in the Columbus Chapter please contact Membership Promotion Chair James Gallick ([jagallick@heapy.com](mailto:jagallick@heapy.com)), or Membership Promotion Co-Chair Jamie Dennis ([jdennis@columbustemp.com](mailto:jdennis@columbustemp.com)).

## Northland High School STEM Activity

ASHRAE Columbus Chapter visited the Northland HS STEM club and presented a fun activity. The students were tested to construct robot tanks from kits containing several hundred extruded aluminum parts. Once the robots were complete, they had to navigate an obstacle course using an infrared controller. We finished the day with a sweet ice cream treat. The students were challenged and engaged during the entire event!

-Bryan Crnarich

ASHRAE k-12 STEM Champion



## 2017 ASCE STEM Expo

The Central Ohio ASCE STEM Expo was at COSI Science Museum this year. This was the 4th annual event which has become more and more popular, with approximately 500 students in attendance (plus parents) and roughly 40 activity sponsors! The goal of the STEM Expo was to expose students in Kindergarten through 8th grade to the world of STEM through fun and interactive activities. ASHRAE had a tremendous opportunity to showcase our dedication our industry and to our future engineers. Our Columbus Chapter stepped up in a big way with several members volunteering for the event. ASHRAE's booth featured several activities focused on age ranges between 5 and 13 years old, concentrating on endo/exothermic reactions, pressure drop analysis and construction management. The STEM Expo event offered a good variety of activities for the students, which was made possible, in part, by ASHRAE's support

-Bryan Crnarich

ASHRAE k-12 STEM Champion



# ASHRAE Learning Institute

## 2017 Online Course Series

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/onlinecourses](http://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)**

**Humidity Control I: Design Tips and Traps**  
Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

**Humidity Control II: Real-World Problems and Solutions**  
Tuesday, June 20, 2017 – 9:00 a.m. to 12:00 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.

**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.

**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.

**Introduction to Building Enclosure Commissioning**  
Part I: Monday, October 23, 2017 – 1:00 p.m. to 4:00 p.m.  
Part II: Tuesday, October 24, 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 • Columbus • Denver • Seattle

### 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](http://www.ashrae.org/hvactraining) to register and learn how your Chapter can earn PAOE points.

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

**Board Member Support!**

Thank you to the following companies for their support of our dedicated Board Members:

<b>SIEMENS</b>	<b>STEFFENS-SHULTZ</b>	<b>AECOM</b>	<b>CARRIER</b>
<b>COLUMBUS TEMPERATURE CONTROL</b>		<b>BURNS &amp; McDONNELL</b>	
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## The Benefits of an ASHRAE Certification

### SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

### GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 30 national, state and municipal entities.

### DISTINGUISH YOURSELF

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

### LET ASHRAE PROMOTE YOUR ACHIEVEMENT

Certificants and their employers are listed on the website and in ASHRAE *Insights*.



## 5 Easy Steps to Earn and Maintain an ASHRAE Certification

### 1. Read the Candidate Guidebook

Visit [www.ashrae.org/certification](http://www.ashrae.org/certification) and download the guidebook for the program in which you are interested.

### 2. Complete the Application

Complete the online application at [www.ashrae.org/certification](http://www.ashrae.org/certification). Membership in ASHRAE is not a requirement for certification.

### 3. Schedule an Examination

BCxP, BEAP, BEMP, HBDR, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

### 4. Review Available Resources

The *Candidate Guidebook* for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

### 5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45\* Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

Schedule an exam at one of over 300 testing centers worldwide TODAY!

To learn more or apply, please go to [www.ashrae.org/certification](http://www.ashrae.org/certification)

## ASHRAE Certification

More than 2,500 professionals certified in six key built-environment fields.

### Are You Ready to Join Them?



Validation. Pride. Recognition.

*"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."*

Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC



ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in six key, built-environment fields.

Recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

### Building Energy Assessment Professional (BEAP)



The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to audit, assess and analyze residential, commercial and industrial building energy use and develop and implement recommendations.

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program, as is its BEMP certification. Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use. Two separate Workbooks, As Designed and In Operation, are part of the BuildingEQ program. Submitting both of these Workbooks can earn an As Designed and In Operation building rating. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only those certified as BEMPs, and Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Building Commissioning Professional (BCxP)



The BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

### High-Performance Building Design Professional (HBDP)



The HBDP certification, an ANSI accredited certification program, validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

### Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to incorporate standards, guidelines and regulatory codes as well as unique healthcare facility requirements and design principles in HVAC system design.

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

### Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

### Value of Earning Your ASHRAE Certification

In a recent "Value of Certification" survey, this is what ASHRAE certified professionals had to say:

- ASHRAE Certification validates my level of specialized knowledge and skills (95%)
- ASHRAE Certification helps differentiate me from my peers (82%)
- Earning ASHRAE Certification has increased my professional reputation (75%)

## Advertising

If you would like to advertise and support the local chapter, the following are donations based on ad size. Please contact Hanse Cromer at [hcromer@steffens-shultz.com](mailto:hcromer@steffens-shultz.com) if you would like to advertising in the next newsletter

Single Issue Only:

1/4 Page	\$50.00
1/2 Page	\$75.00
Full Page	\$100.00