



Columbus
Chapter

NEWSLETTER

Fall 2017 Newsletter

President's Message

Welcome back from summer break! I hope everyone was able relax and enjoy the extra time and warm weather.

With the beginning of our new fiscal year, the Columbus chapter board positions have transitioned to our new officers. As your new president, I first want to thank our 2016-2017 President, Casey Kaputska. Under his leadership our local chapter exceeded the goals set by the national society and was awarded the Presidential Award of Excellence. Great Job to Casey everyone who had a part in making that happen!

I also want to thank everyone for making the golf outing a huge success. With 148 registrants, we had the largest turnout in many years and collected over \$17,000 to donate to the ASHRAE RP. Planning for next year's event will include arrangements to allow even more golfers to participate. Special thanks go out to our 2017 Sponsors.

Looking forward, let's all take a look around our offices to see if there is an engineer not yet coming to our events. Many Columbus-area companies are growing and have hired new talent. Please invite these people to our meetings so we can share the value of ASHRAE.

Thanks again, and always feel free to reach out with suggestions to make your organization better.

Jared Keron

2017-2018 President

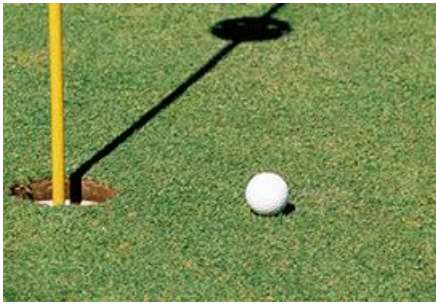
Columbus Chapter

jared.keron@trane.com



Columbus
Chapter

2017 ASHRAE Golf Outing



**LANCE BOWMAN REFEREE
ON HOLE #7**



**Gas- Powered Margarita Maker
on Hole #7**



We Hear You. All of You.

MORE
NEW
FEATURES

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Suggestions*

**A lot is going into the development of the reinvented Aero[®] 39M Air Handler.
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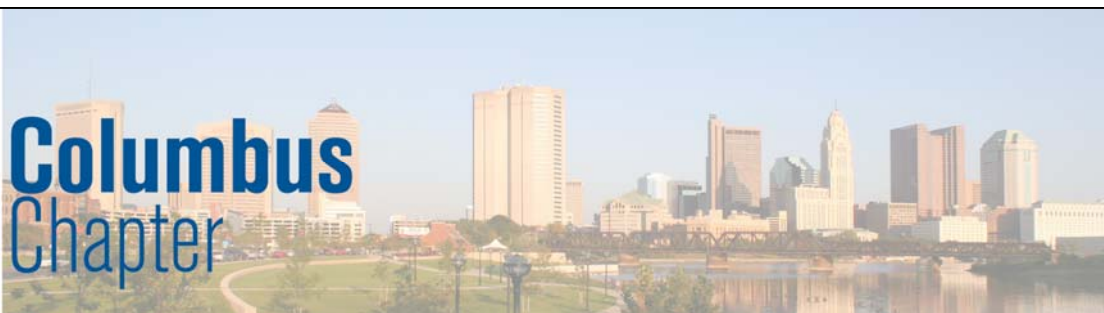


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Columbus Chapter



Bryan Crnarich

Student Activities Chair

As the Student Activities Chair I plan to accomplish wonderful things during the ASHRAE 2017-2018 year! Conducting a joint K-12 STEM activity with representatives of other societies, establishing new student branches or reactivating an inactive student branch, act as liaison between the chapter and area educational institutions, Promote credit courses in the fields of heating, ventilating, air conditioning and refrigerating at universities, colleges, technical institutes and junior colleges, exceeded student membership from the previous year, continuing to award chapter scholarships to tech or undergraduate engineering students, helping students post their resume to the ASHRAE Internship webpage, participating in National Engineer's Week and assisting with K-12 and YEA activities.

These are just a few ways I envision defining my role while having the privilege to serve as the Student Activities Chair for the Columbus Chapter of ASHRAE.

Research Promotion

Chair: Aaron Powell

Co Chair: Matt Colvin

Welcome to another exciting year of Columbus ASHRAE! This year, I have the privilege of chairing Research Promotion. **Our Chapter goal is to reach \$14,500.** The upcoming golf outing will go a long way to helping reach this goal. If you haven't already signed up for sponsorship opportunities please do so. There are many more opportunities to give so please don't hesitate to reach out to me or Matt.

Since 1919, ASHRAE has supported research to improve the quality of life. ASHRAE Research impacts the industry by improving the way HVAC&R systems work, how they are applied and allow development of technical information to create standards and guidelines, which serve as the basis for testing and design practices around the world.

The Society funds thousands of projects addressing topics such as sound, duct design, the effect of oil in refrigerants, load calculations, thermal conductivity, simplified energy analysis procedures, weather data, refrigerant property data, fire and smoke control and solar design. The most significant ASHRAE research is in the areas of human comfort and the properties of materials and systems used in buildings and refrigeration systems.

Investments and Contributions go Directly to Research.

All funds raised through the research promotion efforts go directly to research projects. Funds raised from other sources pay for administrative and committee expenses and support material, and also help fund projects and grants-in-aid.



Columbus HVAC Design Training

October 16 – 20, 2017

Would you or someone you work with benefit from additional training on the Essentials and Applications of HVAC Design? The Columbus Chapter will be hosting the ASHRAE Learning Institute's HVAC Design Level 1 and Level 2 Courses from October 16 – 20.



HVAC Design: Level I - Essentials

ASHRAE's HVAC Design: Level I - Essentials training provides participants with instruction that accelerates their transformation into effective members of a design, construction or facilities maintenance team. Developed by industry-leading professionals selected by ASHRAE, the training provides attendees with the fundamentals and technical aspects of HVAC design. Attendees will gain practical skills and knowledge to design and maintain HVAC systems that can be put to immediate use. In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the renovated ASHRAE Headquarters building. The training also teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations. Engineered drawings of the ASHRAE Headquarters renovation will also be discussed so participants are exposed to plan reading and visual understanding of system design.



HVAC Design: Level II – Applications

ASHRAE's HVAC Design: Level II – Applications training provides participants with instruction on HVAC system design. The training is tailored for engineers with advanced experience in the HVAC design field, or those who have completed HVAC Design: Level I - Essentials. Developed by industry-leading professionals, the training provides advanced 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.

For additional information and to register please use the following link:

<https://www.ashrae.org/education-certification/hvac-design-and-operation-training/columbus-hvac-design-training-october-2017>



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- Bryant is already meeting the new DOE 2018 and ASHRAE 90.1-2010 standards. Same day availability coming soon!
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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 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. 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.

*BCxP requires 60 PDHs.

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

To learn more or apply, please go to
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 (HBDR)



The HBDR 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 ability (89%).
- ASHRAE Certification helps differentiate me from my peers (82%).
- In my field, ASHRAE Certification has provided me with greater professional recognition (73%).

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)**

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 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.

Board Member Support!

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

AECOM	STEFFENS-SHULTZ	CARRIER	TRANE
COLUMBUS TEMPERATURE CONTROL		SAUER GROUP, INC.	
HEAPY ENGINEERING	TRANE	MUSSAN SALES	ELITAIRE
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Chapter Officers and Board of Governors:

Jared Keron – President
jared.keron@trane.com
(614) 507-4377

Hanse Cromer – President Elect
hcromer@steffens-shultz.com
(614) 274-5515

Casey Kapustka - Past President
casey.kapustka@carrier.utc.com
(614) 562-9970

Tony DeCrescenzo – Vice President/Honors & Awards
Committee Chair
tdecrescenzo@elitaire.com
(614) 404-8669

Jake Taylor—Treasurer/Regional YEA Chair
jktaylor@heapy.com
(614) 457-2696

Carl Schultz— Secretary
carl.schultz@aecom.com
(614) 600-5928

Dave Kern—CTTC Chair
dkern@mussun.com
(614) 294-4822

James Gallick—YEA Chair
jagallick@heapy.com
(614) 457-2696

Julia Call—Membership Promotion Chair
JuliaC@aecmep.com
(614) 486-4778

Matt Colvin—Research Promotion Co-Chair
mcolvin@steffens-shultz.com
(614) 274-5515

Jamie Dennis— Grassroots Government Advocacy Chair
jdennis@columbustemp.com
(614) 294-6216

Bob Snow—Electronic Communications Chair
bsnow@osborn-eng.com
(614) 556-4272 (ext. 5013)

Aaron Powell—Research Promotion Co-Chair
Apowell@ketchumandwalton.com
(614)-404-5192

Jason Treacy—Member at—large
jasont@aircontrolproducts.com
(614) 299-1747

Andrew Stotz—K-12 STEM Champion Chair
andrew_stotz@trane.com
(614) 578-7149

Bryan Crnarich—Student Activities Chair
bryanc@aecmep.com
(614) 486-4778

Carl McMullen – Historian
carlm@mcmulleneng.com
(614) 895-9408

Jim Arnold—Grassroots Government Advocacy Chair/Region
Vice Chair
jim@haslettmechanical.com
(614) 299-2133

Jason Treacy—Member at –large
jasont@aircontrolproducts.com
(614) 299-1747

Nat S. Natarajan—Regional CTTC Vice Chair
nat@tecincl.com
(614) 364-0225

Melissa Wilson—Member at-large
MWilson@Sauer-Inc.com
(614) 853-2500

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Please contact Carl Schultz at carl.schultz@aecom.com if you would like to advertising in the next newsletter

Single Issue Only:

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