



ISSUE IX | 2020

DAYTON CHAPTER

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PIVOT

MOVING OUR SOCIETY FORWARD

FORMERLY DAYTON GREEN EXPO
CO-HOSTED BY



Collaborate with businesses, architects, engineers, contractors, suppliers, government representatives, experts, and non-profits committed to environmental sustainability.

This year's conference will focus on **PEOPLE, RESILIENCY** and **PERFORMANCE**

SEPTEMBER 30, 2020
VIRTUAL FORMAT

AGENDA

REGISTER NOW

9:30 AM

VIRTUAL CONFERENCE OPENS / WELCOMES

10:00 AM - 11:00 AM

AM EDUCATIONAL SESSIONS

- A. New World Built on Resilience, Sustainability and Equity
Hosted by Dayton Regional Green
- B. Smart Technologies Defined

11:00 AM - 11:10 AM

BREAK

11:10 AM - 12:10 PM

KEYNOTE - OWNERS PANEL: PEOPLE, RESILIENCY, PERFORMANCE

- ANN WALSTON – System Director, Facility Management at OhioHealth
- MEGHAN RIESTERER, CEM, CDSM, LEED AP, Assistant Vice President Campus Energy & Sustainability at Oberlin College
- ALEX BURKE, Energy Procurement & Environmental Sustainability Advisor at Cardinal Health

12:10 PM - 12:40 PM

LUNCH BREAK

12:40 PM - 1:40 PM

PM EDUCATIONAL SESSIONS

- A. Impact of Climate Change & Urbanization on Future Building Performance
Hosted by ASHRAE Dayton
- B. Redefining Buildings for 2021 and Beyond

1:40 PM - 2:15 PM

DISCUSSION FORUM

- A. Challenges in the Built Environment
- B. Redefining Dayton
Hosted by Dayton Regional Green

Earn AIA LUs, GBCI CEs and PDHs

For additional information, please contact Lori Dahm at 937-224-0861 or lddahm@heapy.com

WWW.DAYTONASHRAE.ORG

FROM THE PRESIDENT

As the close of summer nears, we are beginning to prepare for our monthly meetings in the fall. Currently, our plan is to hold meetings through the end of the year virtually. We will re-evaluate the plan later this year to determine how we best can serve the chapter moving into 2021.

On September 30th, we will be participating in the Pivot Virtual Conference (formerly known as Dayton Green Expo). This year's conference will focus on People, Resiliency and Performance.

On October 2nd, we have our annual golf outing scheduled to take place at Pipestone Golf Course. See our ad on page 6 or Visit www.daytonashrae.org to reserve your spot in the outing.

Hope to see everyone there!

Brian Turner - President, Dayton ASHRAE

CHAPTER HISTORY

Upcoming Events

Sept. 16th

Board of Governors
8:00 AM, Virtual Meeting

October 2nd
Golf Outing

8:30 AM, PipeStone

October 21st

Board of Governors
8:00 AM, Virtual Meeting

November 18th

Board of Governors
8:00 AM, Virtual Meeting

December 16th

Board of Governors
8:00 AM, Virtual Meeting

[See Additional
Events & Volunteer
Opportunities Here](#)

IN HONOR OF 70 GREAT YEARS.....(continued)

As the Dayton ASHRAE chapter started the 1970s the meetings were held at the Carillon Cafeteria on South Dixie in Kettering. Thanks to Glen Black and his continued running of the liquor bar (Carillon Cafeteria was not licensed for alcohol) the chapter was able to operate without dues until 1976/1977. In 1976/77 Society ASHRAE was encouraging all local chapters to increase membership and attendance of local meetings. The Dayton Chapter began to hold meetings at restaurants to attract more attendees, but often ran into a problem of members reserving dinner, but not attending and being left with the bill. After much "heated" discussion the Dayton Chapter board decided to charge local dues to include the cost of lunch or dinner so that the Chapter would not lose money at meetings and have a cushion for other operational costs, similar to how the Chapter continues to operate today. Meetings were tried at various establishments like Su Casa Amiga and the Engineers Club of Dayton before settling at the Holiday Inn on Springboro Pike. In 1977/78 the traditional Spring Dinner Dance was changed to be an Ohio River Boat trip in Cincinnati. Because 100 attendees were needed for the chapter to "break even" financially there was a large push for attendance. The push for attendance was so successful that the boat company was unable to accommodate all the attendees at one time and dinner had to be eaten in shifts. The outcome of the event was a huge success and affectionally referred to as the "SS Tragedy". As the decade closed out energy conservation was a big focus including compliance with new federal regulations that limited control of building temperatures to 68 degrees in heating and 78 degrees in cooling, which led to frustrations.

Throughout the 1970s the various Dayton ASHRAE Chapter Presidents worked for a variety of companies beginning in 1970/71 with Glenn Black from Johnson Service Controls, Dick Pearson a design Engineer with Marvin Heapy, Al Fraley as an estimating/Project Manager with Hughes-Simonson, and Jim Tudas with Dayton Trane in 1973/74. Jack Kolb with Lorenze and Williams was Chapter president in 1974/75. To round out the decade the remaining presidents were Jack Rosati with Airtemp and J.L. Rosati & Associates in 1975/76, Frank Mauro (current chapter member) with Johnson Service Company, Mark Rapiere (current chapter member) with the Dayton Trane, Doug Smith with Ponderosa, followed in 1979/80 by Jim Albitz with Dayton Trane.

Committee Chairs

MEMBERSHIP

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Board of Governors

Jeremy Fauber

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Rick Pavlak

Heapy

Lorraine Kapka

Sinclair College

MEMBERSHIP

New Members

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

August

****No new members****

Do you know a colleague that would benefit from joining ASHRAE?

You can go to http://web.ashrae.org/connect_a_colleague/ and quickly sign up for ASHRAE to send an email to ask them to sign up on your behalf.

Membership Recognition

We would like to recognize the following members who have been with ASHRAE for the following years! Thank you for all your contributions to the field!

5 Years

Larry Berna

10 Years

Todd Smith

20 Years

Jason Reinhardt

30 Years

Ritchie Mumpower



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

Membership Application Here

ASHRAE RP



WE ARE AWARD WINNERS! !

Thanks to all of you we have won a number of ASHRAE Awards for our 2019-20 RP Campaign Year. The ASHRAE Fiscal Year ended on June 30. Normally, Awards are presented at Regional Chapter Conventions (CRC's), but since we are not doing these "live" this year they sent them out by mail. Our "Winnings" include "Total Dollars Raised per Chapter Member," "High five, and "Challenge Goals" helping ASHRAE to achieve over **\$1.6 Million dollars for Research** and over **\$170,000 for Scholarships**. This all during the year ending in a pandemic. **THANK YOU...THANK YOU... THANK YOU Dayton Chapter!** - Tom Mastbaum, Dayton RP Chair

* Award Letter is on next page.

IMPORTANT: One change that you need to know about: To achieve "Honor Roll" status this year the minimum donation level is **\$150**. Honor Roll means that your name is published in the ASHRAE Journal, and you receive a Commemorative Gold Coin of a Refrigeration or HVAC Pioneer. We appreciate all donations and a donor your name will appear as a donor in our local newsletter. But if you want to keep your "Coin Collection" going and be "Published," the NEW MINIMUM is \$150.

2021 Goal = \$ Not established Yet
YTD = \$ 600.00
To go = \$ N/A

Partner Level

Your Company Here

Honor Roll

Lorraine Kapka
Steve Meier
Tom Mastbaum
Evan Nutt

Honorable Mention

Your Name /Company Here

Silver Level

Your Company Here

Bronze Level

Your Company Here

If you would like to donate NOW simply click this link:

[Donate NOW](#)

And make your donation to help ASHRAE in its Research Efforts. Thank you so much!!



ASHRAE RP

Thank you!

Thank you for the Dayton Chapter's efforts in continuing fundraising for ASHRAE RP through the struggles this Spring. We recognize that raising funds for ASHRAE RP may have been more of a challenge than anticipated, but we appreciate your chapter's time and support.

We were able to fund over \$1.6 million in ASHRAE Research, added \$170,000 to scholarships and \$280,000 to endowed funds, and still supported various other funds!

Congratulations!

Usually the enclosed awards would be presented to your chapter at your CRC, but the RP RVC, Mr. Devin Snowberger, has asked that they be sent directly to you. If you have any questions, please do not hesitate to contact Devin at devinsnowberger@gmail.com.

Enclosed you will find the following awards:

Silver Treasury Ribbon
Top 5 Runner-up: Total \$, PAOE, \$/Member
Certificate - Goal, High Five, and Challenge Goal
Chevron - Endowment
Chevron - Apex
Chevron - Full Circle

To understand these awards better, here is a listing of what you may have received:

Certificates:

Goal – matching or exceeding Goal
High Five – setting a new high in dollars raised by the Chapter in the last 5 yrs
Challenge – matching or exceeding Challenge Goal

Patches & Date Chevrons:

The first year a chapter achieves this award, they are given a Patch and all subsequent years will earn a date Chevron.

Apex Award Patch/Chevron – a new high has been set consistently for the past 5 years.

Full Circle Patch/Chevron – all officers gave to achieve Full Circle.

Endowment Patch/Chevron – a new endowed Foundation gift was set-up or a minimum of \$3,000 was given towards a previously existing fund.

Scholarship Patch – A Chapter Scholarship that is fully funded and raised through the RP Campaign.

Treasury Ribbons:

Gold Ribbon for \$10,000 or larger chapter investment
Silver Ribbon for \$5,000 to \$9,999 chapter investment
Bronze Ribbon for \$2,500 to \$4,999 chapter investment

Top Five by Chapter Size:

Five Categories: Total Dollars Raised, Goal, Challenge, PAOE, and \$ per Member

The overall highest percentage winner for each category receives a personalized certificate.

Each category has 4 size levels based on paid members: 0-99, 100-249, 250-499, 500+

-Out of those levels there is the size winner (highest percentage for that size) that receives a certificate.

-And each size level has 4 runners-up that also receive a certificate.

ASHRAE EVENT

ANNUAL ASHRAE GOLF OUTING

Friday,
October 2, 2020
At *Pipestone*

Tickets include:
Green fees, boxed
lunch and two
drink tickets.

Golf Course
4344 Benner Road,
Miamisburg
Registration at 8AM
Shotgun start at 9AM

Tickets for
Mulligans will be
available for
purchase.

LAST DAY TO REGISTER: SEPT 25TH !!



Click on the
ASHRAE golf
ball to sign up
for Single, Foursome or
to Sponsor a hole!

ASHRAE News

ASHRAE Members Participate in Roundtable with Senator Heinrich

On August 11, ASHRAE Members Dean Saputa and Matt Middlebrooks, who are also members of the "Filtration and Ventilation" Team of the Epidemic Task Force, along with ASHRAE New Mexico Chapter President and Immediate Past President Frederick Earnest and Stacey Chan, respectively, participated on a panel moderated by Senator Martin Heinrich (D-NM). The roundtable discussion topic was on buildings systems and the coronavirus, with a specific focus on the guidance developed by ASHRAE's Epidemic Task Force.

During the roundtable, Senator Heinrich announced that he will be introducing legislation to establish a grant program for schools to upgrade their HVAC systems to improve indoor air quality and he welcomed ASHRAE's ongoing participation. In his introduction, Senator Heinrich stated that "ASHRAE has been at the forefront" of this critical issue. Thank you, ASHRAE Members for sharing your technical expertise with policy makers!

Rep. Perlmutter Introduces the Green Neighborhoods Act

On August 11, Rep. Ed Perlmutter (D-CO) introduced [H.R. 8021, the Green Neighborhoods Act of 2020](#). The bill would require the U.S. Department of Housing and Urban Development (HUD) to utilize updated energy efficiency standards, such as the most recent version of ASHRAE 90.1, and provide energy efficiency incentives for new and existing housing structures. The legislation would also:

- Ensure energy cost savings from efficient homes are accounted for in the underwriting process for federally backed mortgages;
- Require HUD to collect and analyze utility benchmarking data from HUD-assisted properties and develop energy savings targets; and,

Establish a workforce development grant program to train employees through apprenticeship programs in "energy efficient retrofits, construction, deconstruction, building maintenance and management, and manufacturing of sustainable processes and materials."

The bill is cosponsored by Rep. Sean Casten (D-IL).

DOE Energy Efficiency Announcements

The Department of Energy Building Technologies Office (BTO) made the following announcements this month:

BTO published ["System Retrofit Trends in Commercial Buildings: Opportunities for Deeper Energy Savings"](#)

BTO published ["A Conceptual Framework to Describe Energy Efficiency and Demand Response Interaction"](#)

["JUMP into STEM Launches Three New Challenges for Building Energy Efficiency"](#)

ASHRAE JOBS: <https://jobs.ashrae.org/jobseeker/search/results/>

ASHRAE News

Environmental Groups Sue CEQ over changes to NEPA

Three coalitions of environmental groups have sued the White House Council on Environmental Quality (CEQ) over its recent overhaul of regulations for implementing the National Environmental Policy Act (NEPA), which requires them to conduct environmental assessments for projects. Lawsuits were filed by the Southern Environmental Law Center, Earthjustice and the NRDC and Sierra Club. Changes to NEPA include:

- A time limit of one year for environmental assessments (EA) and two years for environmental impact statements (EIS).
- Elimination of the requirement to consider "cumulative effects" and removing any reference to "indirect effects."
- 75-page limit for EAs and a presumptive 150-page limit for EISs.

The rule proposal received over a million comments when it was issued earlier this year and legal challenges were expected. [Click here](#) to read the NEPA Factsheet and [click here](#) to read the Final Rule that will go in effect on September 14, 2020.

GSA Seeks Changes to its P100 Facility Standards

The U.S. General Services Administration is soliciting proposed changes to P100, the Public Building Service's facilities standards that are used for contracting, design and construction of public facilities. These standards apply to a wide range of projects, including small projects, renovations, new construction, reimbursable work with agencies and Energy Savings Performance Contract (ESPC) work. The P100, which is now updated every three years, currently requires buildings to be designed at least 30% more efficient than the design required by ASHRAE 90.1-2016.

The online form allows for the collection of change proposals from the 2018 P100 and addendum which can be found [here](#). Proposed changes will be accepted through October 1, 2020 and the form can be accessed [here](#).

Group of Mayors Urge Congress to Include Clean Energy Incentives in COVID-19 Aid

On August 13, a coalition of 64 U.S. mayors sent a letter to the U.S. Congress urging lawmakers to include clean energy tax incentives in economic recovery strategies during the COVID-19 pandemic. The letter calls on lawmakers to extend energy tax credits for solar and wind power investments, expand support for energy efficiency programs and create credits for energy storage. The mayors came from cities of various sizes, including Pittsburgh and Houston, as well as small cities like Norfolk, Nebraska and Carmel, Indiana. They are hoping to have these priorities included in a national infrastructure investment and economic recovery bill. Mayors' ability to address these issues is primarily at a grassroots level through approaches such as home weatherization and building efficiency upgrades in local code changes, but progress on clean energy priorities largely depends on federal and state policies affecting the power grid. The letter can be found [here](#).

ASHRAE News

ASHRAE Epidemic Task Force Updates Building Readiness Guidance

The ASHRAE Epidemic Task Force's updated [Building Readiness](#) guidance provides practical information and checklists for how buildings should operate during and after the pandemic and how to practically check operations. The guidance, which was released yesterday, addresses:

- energy recovery ventilation systems operation
- building readiness modes of operation
- increased ventilation and filtration and
- building exhaust air re-entrainment.

[Download](#) the guidance. [Read more](#)

Free ASHRAE Webinars Focus on COVID-19 Mitigation Best Practices, Strategies

The Epidemic Task Force has developed guidance on mitigating potential health risks in buildings, including several free courses and webinars. From managing HVAC systems to help mitigate the spread of SARS-CoV-2 in buildings to analyzing airflow patterns and flow path of airborne contaminants, the free resources provide strategies and guidance for ASHRAE members. Access the webinars [here](#).

Classes to Address Humidity Control, Ventilation in Newly Released Schedule

From commercial building energy audits to air-to-air energy recovery applications, upcoming ASHRAE Learning Institute classes will discuss best practices and strategies to help engineers design, operate and maintain efficient building systems. [Read more](#)

ASHRAE Global Training Offers 2020 Summer, Fall Online Series

ASHRAE's Global Training Center is launching two new courses. One explores the difference between airborne and contact transmission and addresses the role of HVAC systems in helping reduce hospital associated infections. The second looks at best practices for data centers, focusing on ASHRAE's thermal guidelines for these environments, telecommunications and high-density data centers in operation. [Read more](#)

Advanced Energy Design Guide Course to Help Designers Create Zero-Energy Schools

NREL, ASHRAE, AIA, IES and the USGBC have developed a new course about achieving cost-effective energy savings in schools. The course establishes energy performance goals for all climate zones. The course includes case studies on zero-energy K-12 schools to help prepare engineers, architects, designers and building owners improve skills in high-efficiency building design. [Read more](#)

CIBSE ASHRAE Technical Symposium 2020 Now Virtual, Discounts Available

The 2020 CIBSE ASHRAE Technical Symposium will be held online on September 14-15. The full technical program of the symposium will focus on "Engineering Buildings, Systems and Environments for Effective Operation," to help industry practitioners, researchers and building users across the globe. ASHRAE members are eligible for a 50% discount by using the checkout code "ASHRAE." A limited number of ASHRAE student member tickets are available for free with the checkout code "ASHRAE_STUDENT." [View the program.](#) [Read more](#)

Keeping Supercomputers Cool

The National Nuclear Security Administration (NNSA) has completed construction of five of the world's largest data center cooling systems, which will cool supercomputers to be built at the Los Alamos National Laboratory. The system has five large external evaporative cooling towers that lower the water temperature. The internal pieces, which are 36 in. (914 mm) water pipes and pumps, will move the cooled water to the computing facility. This warm-water cooling is far more energy-efficient at removing heat than the previously used air cooling. [Read more](#)

ASHRAE News

ASHRAE Endorsed Conferences & Events : Click on ASHRAE symbol for more information.

Refrigeration 2020 — (suspended with no new dates set)

CIBSE ASHRAE Technical Symposium 2020 — September 14–15, 2020 (**will now be held online**)

BuildSim Nordic 2020 — Oct 13–14, 2020 (**will now be held online**) You are invited to participate in the BuildSim Nordic 2020 virtual conference, to be held on the 13th & 14th of October, organized in cooperation between the Nordic chapter of IBPSA, OsloMet and NORVAC. [Click here](#) for more information.

Indoor Air 2020 — starts November 1, 2020 (**will now be held online**)

Outlook 2020 — Nov. 8–10, 2020, Sydney, Australia

THERMAG IX - International Conference on Caloric Cooling — June 6–10, 2021, University of Maryland

IAQ 2020 — September 13–15, 2021, Athens, Greece



Pursue Professional Development without Travel

Although travel may be limited in the current environment, you can continue pursuing your professional development. ASHRAE's 100% web-based [eLearning program](#) is here to support you in those efforts. For a limited time, enjoy a 20% discount on any [eLearning course offering](#), including individual courses, course packages, and libraries. Enter code **LEARN2020** to take advantage of this offer. **Offer ends August 31, 2020. [Act Now.](#)**

[Corporate discounts](#) are available for companies purchasing enrollments of identical content packages for 5 or more people.

ASHRAE eLearning offers over 90 HVAC&R-related courses to choose from, including these recently updated, fully interactive courses:

- Psychrometrics
- Introduction to HVAC Design
- Refrigeration System Parameters and Key Performance Indicators (KPIs),
- DDC Specification, Installation and Commissioning
- Central Plants

Achieving Zero-Energy Building Design – **NEW!**

Individuals can register online at <https://elearning.ashrae.org/> and immediately gain access.

Companies can register employees by contacting elearning@ashrae.org or calling **678-500-3917**.

[ASHRAE eLearning](#) is an approved Continuing Education provider for the American Institute of Architects (AIA), and a U.S. Green Building Council (USGBC) Education Partner. Continuing Education (CE) hours earned from ASHRAE eLearning may be applied toward maintenance of state-licensed professionals (architects and professional engineers) and LEED credentials.

Thank you, -ASHRAE eLearning

More Education

ASHRAE Learning Institute Announces 2020 Fall Online Course Series *Post COVID-19 Building Reopening Course Among New Training Offerings*

ATLANTA (August 21, 2020) – ASHRAE Learning Institute (ALI) has opened registration for its [2020 Fall Online Instructor-led Course Series](#). The series which begins on September 10 and concludes on December 15, features 18 new or updated courses.

"ASHRAE's online course series successfully engages built environment professional through in-depth, practical instruction on a wide variety of topics," said Charles E. Gullledge III, P.E. "This course series is structured to expand knowledge and provide professionals with an exceptional level of understanding to address today's building challenges."

[Evaluating Your HVAC System's Readiness to Mitigate the Spread of SARS-CoV-2](#) expounds on the online ASHRAE COVID-19 details for reopening buildings and the Building Readiness Plan for HVAC systems. The course will focus on the re-occupancy of existing buildings through the evaluation of HVAC systems and how they can be altered to improve their ability to mitigate the transmission of a virus, like SARS-CoV-2 that creates the COVID-19 disease and how to potentially future proof them for the next epidemic.

Three-hour short courses are \$299 (\$224 ASHRAE Member), two-hour courses are \$198 (\$149 ASHRAE Member) and one-hour courses are \$99 (\$74 ASHRAE Member).

The following is the full fall online course series schedule:

For more information and to register, please visit ashrae.org/onlinecourses.

Sep 10, 2020	New - An Introduction to ASHRAE Existing Building Commissioning Process	Oct 13, 2020	New - The Commissioning Process and Stakeholder Management
Sep 16, 2020	Updated - Air-to-Air Energy Recovery Applications: Best Practices	Oct 14, 2020	New - Smart Grid Systems, Applications and Integration with the Built Environment
Sep 22, 2020	New - Humidity Control: Avoiding Five Common Design Problems	Oct 20, 2020	New - Hospital HVAC – Infection Mitigation, Comfort, Performance
Sep 23, 2020	High-Performance Building Design: Application and Future Trends	Oct 22, 2020	Humidity Control II: Real-World Problems and Solutions
Sep 24, 2020	New - Advanced High-Performance Building Design: Key Concepts for Lifelong Building Sustainability	Nov 9, 2020	Guideline 36: Best in Class HVAC Control Sequences
Sep 30, 2020	New - Evaluating Your HVAC System's Readiness to Mitigate the Spread of SARS-CoV-2	Nov 17, 2020	Advanced Designs for Net Zero Buildings
Oct 6, 2020	Variable Refrigerant Flow System: Design and Applications	Dec 3, 2020	Updated - Laboratory Exhaust Stacks: Safe and Energy Efficient Design
Oct 8, 2020	New - Health Impacts of Indoor Air Extraction, Ventilation, and Filtration – Same or Different?	Dec 8, 2020	Updated - Successfully Managing the Risk of Legionellosis Using Standard 188-2018
Oct 12, 2020	Updated - Fundamentals of Ultraviolet Germicidal Irradiation (UVGI) for Air and Surface Disinfection	Dec 15, 2020	Avoiding IAQ Problems



CELEBRATING 125 YEARS