



DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE VIII | 2022

FROM THE PRESIDENT

CURRENT OFFICERS

PRESIDENT

Matt Dill

Matthew.dill@victaulic.com
Victaulic

PRESIDENT-ELECT

Trent Hayden

thayden@netgainsengineering.com
Netgains Engineering P.C.

TREASURER

Zak Schultz

zak.schultz@ferguson.com
Ferguson Enterprises, Inc.

SECRETARY

Kort Kugel

Kort.Kugel@aeroseal.com
Aeroseal

Find Us on

LinkedIn

&

Like

Us on
Facebook

Thank you to everyone that attended the Chapter's Regional Conference in Fort Wayne, Indiana. The Dayton Chapter was awarded a special citation for the Presidential Award of Excellence. Russell Marcks was recognized for his work as the Student Activities Chair as he was able to secure a \$5,000 dollar grant for Sinclair Community College. Tom Mastbaum and Brian Turner were recognized for their Research Promotion efforts as the Dayton Chapter once again met and exceeded our fundraising goal.



Would you like to get Involved with ASHRAE? If you are interested in being involved with ASHRAE, please reach out to the member of the Board of Governors.

Enjoy the rest of your summer. We look forward to seeing you at our upcoming events.

Thank you,

Matt Dill – President,
Dayton ASHRAE



Presented by Trane on Tuesday, August 30 at 2 p.m. ET
Certificate of Attendance Offered

[The ASHRAE Position Document on Building Decarbonization](#) was recently approved and announced. Building decarbonization addresses a building's entire life cycle: its construction and energy use as well as methane and refrigerant leaks, which are the primary sources of greenhouse gas (GHG) emissions. A primary means for reducing building GHG emissions includes reducing building energy use through energy-efficient electrification while also removing emissions from the electrical grid.

This webinar will explore solutions for electrification of thermal systems using site sourced, site recovered and compressor-based heating. Air-to-water and water-to-water heat pump system benefits, limitations, and best practices will be discussed as well as cold climate strategies.

[Register Now](#)

Upcoming Events

July 20th

Board of Governors
8:00 AM, Virtual Meeting

August 17th

Board of Governors
8:00 AM, Virtual Meeting

Sept 21st

Board of Governors
8:00 AM, Virtual Meeting

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

CHAPTER HISTORY

(1967-1968)

President:	Gifford Solem	Johnson Service
Vice Pres:	Norman Pleimann	Hughes Bechtol
Secretary:	Thomas Ferdelman	Ahart & Assoc.
Treasurer:	Glenn Black	Johnson Service
BOD:	John Patterson	Trane Company

Regional Director: Don Phillips

Meetings were held at the Dayton Engineering Club.
CRC held in Indianapolis, Indiana.

Committee Chairs

MEMBERSHIP

Vincent Caudill

Vcaudill@ecomfortohio.com
Environmental Comfort, LLC

HISTORY

Bryan Schenck

Brian.Schenck@waibelenergysystems.com
Waibel Energy Systems

COMMUNICATIONS

Nathan Lammers

Nathan.Lammers@waibelenergysystems.com
Waibel Energy Systems

RESEARCH PROMO

Tom Mastbaum

tom.mastbaum@tem-associates.com
TEM Associates, LLC.

STUDENT ACTIVITIES

Russell Marcks

Russell.marcks@sinclair.edu
Sinclair Community College

CTTC

Evan Nutt

ENutt@elitaire.com
ElitAire

GOVERNMENT AFFAIRS

Brian Scullin

Brian.Scullin@emerson.com
Emerson

YEA (Chair)

Phillip Reid

PAReid@heapy.com
Heapy

Board of Governors

Rick Pavlak

Heapy

Lorraine Kapka

Sinclair College

Jennifer Eller

Heapy

MEMBERSHIP

New Members

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

July:

To be reported next month

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!

Any Anniversaries will be reported next 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 **Vincent Caudill** at vcaudill@ecomfortohio.com or by calling 513-512-5359.

Membership Application Here

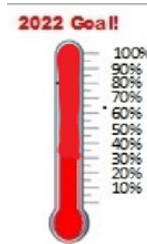
ASHRAE RP

Thank you to all those who helped us meet our goals for the 21-22 RP campaign. At this time, our 22-23 goals have not officially been set. Our expectation is that our goal will be close to \$20,000 again this year. For those looking to kick off the next 22-23 season, please consider donating to ASHRAE RP / Education / Scholarships. See the link BELOW to donate today!

Please note again that in order to be recognized with a commemorative coin, and have your name published in the ASHRAE Journal, the minimum donation is \$150 for individuals and \$500 for Corporate Donors .

2021 Goal = \$ 19,680
YTD = \$ 19,680
To go = \$ 0

% to GOAL: 100%



Partner Level

Honor Roll

Bronze Level

Silver Level

Honorable Mention

Thanks for all your help and support. 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 Jobs

The Dayton Chapter is always looking for creative individuals
To help volunteer for different positions or events.

Please make sure to let us know
If you are willing to help our and



Share your ideas to help
Shape the world of
HVAC-R!

ASHRAE Job Board

Sr Building Performance Engineer HGA; Milwaukee, Wis.; Madison, Wis.

Ventilation Assessment Engineer Chemistry & Industrial Hygiene, Inc.; Wheat Ridge, Colo.

IT Network Engineer University of Maryland; College Park, Md.

HVAC Systems Development Engineer Trane Technologies PLC; La Crosse, Wis.; Lexington, Ky.; Minneapolis, Minn.

Workplace MEP Engineering, Manager Salesforce; San Francisco, Calif.

Electrical/Instrument Designer Kelly Services; Midland, Mich.

Energy Engineer Duke Facilities; Durham, N.C.

HVAC Associate Design Engineer I Fluor; Sugar Land, Texas

Remote Electrical Services Coordinator - Smart Buildings / Low & Medium Voltage Siemens; Irving, Texas

Manufacturing / Automation Design Engineer III Spira Manufacturing Corporation; San Fernando, Calif.

[View All](#)

ASHRAE Learn

Common Pitfalls in HVAC Sensor Installations

Common pitfalls
in HVAC sensor
installation

FREE WEBINAR

VAISALA

[Click here](#)

When measuring humidity, temperature, and carbon dioxide in HVAC applications, whether you are optimizing cooling towers or demand-controlled ventilation, installing the sensors correctly is just as important as the technologies you choose. In this webinar, an expert from Vaisala will cover sensor installation best practices for monitoring in an HVAC application. The most common pitfalls to avoid and important considerations when installing HVAC sensors will be addressed.

IAQ Roadmap to Healthier Air and Sustainability in Schools

Earlier this year, the White House launched an initiative calling on all leaders, building owners, engineers and operators to adopt key strategies to improve indoor air quality (IAQ) in buildings and schools. The journey to a healthier learning environment starts with an action plan. Register today for a webinar from Honeywell, on how to navigate funding and deploy an Indoor Air Quality roadmap to optimize air quality and sustainability in schools. [Click here](#) for more information.



[Click here](#)



Buildings XV Conference December 5-8, 2022

Sheraton Sand Key Resort, Clearwater Beach, FL

Thermal Performance of the Exterior Envelopes of
Whole Buildings

Registration is now open for the 2022 Buildings XV Conference, the conference is organized by ASHRAE along with Oak Ridge National Laboratory and held in Clearwater Beach, FL!

“This conference draws heavily on the advanced technical knowledge of our global experts and takes place every three years, allowing time to develop new research and technology applications and to document findings,” says André Desjarlais, conference chair.

[Register Now](#)

ASHRAE News

S2 | E14: Are Ground-Source Heat Pumps Our Future?

[Play the Episode](#)

“When we have something that works, we just tend to do that over and over again... we’re all liability averse, but there’s also a place, especially now, for us to consider new and emerging technologies,” says Steve Hamstra, P.E., [HBDP](#), Member ASHRAE. Join Hamstra and Garen Ewbank, Member ASHRAE, as they discuss the implementation, reliability and resiliency of ground-source heat pumps; the cost, incentives and benefits of retrofitting with new technology; and why the future looks bright for the industry.

NIST Indoor CO₂ Tool Can Help Assess Ventilation, Indoor Air Quality

A key ingredient for good indoor air quality is good ventilation. One simple method that can be used to determine if a space is well ventilated is to measure indoor carbon dioxide levels. [A new free online tool](#), developed by researchers at the National Institute of Standards and Technology (NIST) calculates target CO₂ levels based on the user’s desired ventilation rate and information about a building and its occupants. With the new resource, building professionals can use CO₂ readings to routinely check ventilation, detecting potentially unfavorable conditions that could lead to the buildup of harmful contaminants. [Read more](#)

Personalized Thermal Conditioning, Heating Could Be Beneficial in the Office Space

A recent study highlights the benefits of providing personalized thermal conditioning and heating for each office desk rather than maintaining a standard temperature throughout an open space. The researchers came to their conclusions by collecting human thermo-physiological data, which showed that individuals display very different levels of thermal comfort under normal office conditions. [Read more](#)



Global Clean Energy Action Forum

Members in your chapter may be interested to know about the **Global Clean Energy Action Forum** in Pittsburgh, PA Sept. 21-23 hosted by the U.S. Department of Energy and Carnegie Mellon University. Thirty-one countries from around the world will take part in this first ever forum, a joint convening of the 13th Clean Energy Ministerial and 7th Mission Innovation Ministerial, where interested parties and decision makers will join together in a three-day event where discussions and presentations will focus on a broad goal aimed at accelerating global deployment of clean energy technologies over the next decade and beyond. Registration is currently open and free of charge.

[>> Learn More](#)



ASHRAE News

HVAC Design and Operations Training is Back!

Are we coming to a city near you? ASHRAE Learning Institute is offering in-person and virtual courses for you to enhance your understanding of HVAC fundamentals, equipment and systems. With several upcoming training sessions through the rest of the year, you won't want to miss your opportunity to revamp your Professional Development schedule. Learn more about early bird member pricing and register [here](#).

Hot Deals on Cool Publications!



**HOT DEALS
ON COOL PUBLICATIONS!**

Beat the summer heat and cool down with your favorite ASHRAE publications! Claim your special 20% off coupon in the ASHRAE bookstore on any one publication. Use code **SUMMER2022** by August 31, 2022.

Visit ashrae.org/bookstore to activate your savings!

**A S H R A E
J O U R N A L**



Podcast

Listen Now

Tune into conversations between leading ASHRAE experts as they discuss what HVAC engineers need to know to design better systems and grow the HVAC&R industry. Available on all podcast platforms.

ASHRAE News

Pacific Countries Declare Climate Emergency

Leaders from across the South Pacific have called for urgent global action on climate change following a four-day [Pacific Islands Forum \(PIF\)](#) meeting in Fiji. Representatives of 16 of the body's 17 members declared that the Pacific is facing a climate emergency that threatens the livelihoods, security and wellbeing of its people and ecosystems. To read more, please visit [here](#).

Record Breaking Heat in Europe

The UK, Ireland, France, Spain and Portugal all broke numerous heat records in July as a heat wave swept across the European continent. Many households in the United Kingdom — and elsewhere in western Europe — do not have air conditioning, as it historically has not been seen as a necessity in the region's mild climate. To read more, please visit [here](#).



Energy Provisions Pulled from Build Back Better

With Senator Manchin refusing to agree to any energy and climate provisions in the budget reconciliation package (aka the Build Back Better Bill), that legislation is being parsed down to its health care provisions, namely lowering prescription drug prices and Affordable Care Act premiums. Democrats are now considering other means for passing energy and climate legislation – one option gaining traction is the commonly used year-end tax extenders. This approach would allow democrats to extend existing tax credits set to end soon (i.e., wind production, solar investment tax credits) and improve incentives for tax provisions related to other areas, including energy efficiency. Past drafts of Build Back Better and language produced by the Senate Finance Committee included tax provisions for:

- Expanding and improving the 179D Energy Efficiency Commercial Building Tax Deduction and making nonprofits and Tribal governments eligible.
- Expanding and strengthening the Sec. 25C Homeowner Energy Efficiency Tax Credit.
Expanding the 45L tax credit for new home construction, offering \$2,500 for ENERGY STAR homes and \$5,000 for net-zero ready homes.

New Report on Fuel-Switching and Building Electrification Policies

On July 21, the American Council for an Energy-Efficient Economy (ACEEE) issued a new policy report entitled, "State policies and rules to enable beneficial electrification in buildings through fuel switching." Electrification can reduce building sector emissions by displacing direct fossil fuel use with electricity use when the electricity is generated by lower-carbon sources. Several states, most recently Minnesota, Illinois, and Colorado, have been in the process of updating their policies to enable beneficial electrification and customer adoption of heat pumps, and reducing dependence on fossil fuel heating in an attempt to achieve their state climate goals. However, 23 other states have no relevant policy on beneficial electrification, and 12 other states discourage or prohibit fuel-switching measures. The full report can be found [here](#).

House Passes \$400 Billion Funding Bill

The House voted 220-207 to pass a \$400 billion legislative package of six spending bills for fiscal year 2023. The minibus included appropriations bills for Transportation, Housing and Urban Development; Agriculture, Rural Development, Food and Drug Administration; Financial Services and General Government; Interior and Environment; Military Construction and Veterans Affairs; and Energy and Water. Six more spending bills remain to be passed by the House, which is striving to pass all 12 spending bills and send to the Senate before the August recess. While the spending bills may undergo changes by Senate Appropriators, some items of interest for the U.S. Department of Energy in the House-passed spending bill include:

- \$80 million for Commercial Building Integration
- \$90 million for Residential Buildings Integration
- \$75 million for Equipment and Building Standards
- \$40 million to facilitate deep whole-house energy efficiency retrofits

Many sources of funding for decarbonization research and implementation

A summary of the Energy and Water spending bill can be found [here](#).



EPA Announces Proposed Rulemaking for Protection of Stratospheric Ozone

On July 4th, Environmental Protection Agency (EPA) Administrator Michael Regan signed a Notice of Proposed Rulemaking for Protection of Stratospheric Ozone: Listing of Substitutes under the Significant New Alternatives Policy Program (SNAP) in Refrigeration, Air Conditioning, and Fire Suppression. The SNAP program requires EPA to assess replacements for ozone-depleting substances, and deems which substances are acceptable and unacceptable. Under the proposed rulemaking, EPA will evaluate a list of alternatives for new chillers, new residential dehumidifiers, new non-residential dehumidifiers, new very-low temperature refrigeration, and total flooding and streaming. The rulemaking will also update the use conditions for one refrigerant (HFC-32) when used in self-contained room air conditioners and heat pumps. Read more about the proposed SNAP rule [here](#).

Washington, D.C. Bans Natural Gas in Most New Construction

Two bills recently passed by the Washington, D.C. City Council will establish certain energy requirements for new buildings. The “Clean Energy DC Building Code Amendment Act” prohibits the use of fossil fuels for space and water heat in new commercial buildings, and certain multifamily residential buildings, starting in 2027. By that same year, those buildings would need to be considered “net-zero energy.” However, this measure also includes gas stoves, meaning restaurants and residents in those buildings would have to use electric induction stoves. These energy requirements would also apply to existing commercial and multifamily residential buildings if “substantial improvements” or retrofits are made. A second bill, the “Climate Commitment Act,” contains a similar ban on fossil fuel heat for new district-owned buildings, such as schools, starting in 2025. It also commits the city to the goal of carbon neutrality by 2045, 5 years earlier than the previous goal of 2050. Buildings currently account for nearly 75% of the city’s total emissions.

INTERNATIONAL BUILDING DECARBONIZATION 2022 CONFERENCE: OCTOBER 5-7 IN ATHENS, GREECE



ASHRAE is organizing its first International Building Decarbonization Conference, which will take place October 5-7, 2022, in Athens, Greece. The conference will be an information and idea exchange among stakeholders in the built environment industry concerning the reduction of greenhouse gas emissions from buildings. A primary goal of the conference is to bridge North America and Europe collaboration in decarbonization efforts.

Registration is now open. Early bird pricing ends August 8. To find out more and register, please visit [here](#).