



# DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE I | 2024

## CURRENT OFFICERS

### **PRESIDENT**

**Jennifer Eller**  
jmeller@heapy.com  
Heapy

### **PRESIDENT-ELECT**

**Kevin Sturm**  
ksturm@uptime-inc.com  
Uptime Solutions

### **TREASURER**

**Zak Schultz**  
zak.schultz@ferguson.com  
Ferguson Enterprises, Inc.

### **SECRETARY**

**Mark Mehicic**  
mmehicic@ketchum-walton.com  
Ketchum-Walton

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**2024**  
*Holiday Party & Past ASHRAE President Recognition Night*  
**Sat., January 27, 2024**  
Top of the Market: 32 Webster Street  
Cocktails: 5:30pm–6pm  
Presentation: 6pm–6:30  
Dinner: 6:30–9pm

Come and enjoy a night of Merriment, photo opts, and great food. It will be a night you won't want to miss. \*\*Parking between 2nd street Market and Top of the Market. We will be using the North entrance door.

Make sure to sign up thru the Eventbrite link below.

**RSVP Here:** <https://www.eventbrite.com/e/dayton-ashrae-chapter-holiday-party-past-president-recognition-night-tickets-780392955337?aff=oddtcreator>

# FROM THE PRESIDENT

I Hope you all had a safe and enjoyable holiday season. Thank you to all who joined us for the December meeting with Tracey Putnam and her presentation on Properly specify and design Plate & Frame Heat Exchangers.

I also would like to remind you all to donate if you can to Research Promotion when you are able. It is nice to have the money to put towards a scholarship, RP or Education.

This years Holiday Party we have decided to recognize all the past Dayton ASHARE Presidents. I will be giving out a certificate to each of you if you are able to make it. The rest will be mailed out. This is a chance for us to say thank you for all your support and leadership to keep the Dayton Area strong in HVAC. Hope to see you there!!

Please also keep in mind that we are still looking for someone to take over for Membership promotion and YEA Chair. Let someone on the Board know if you are interested.

Warm Regards,  
*Jennifer Eller* , President, Dayton ASHRAE

## Upcoming Events

**Jan 17th**

**Board of Governors**  
8:00 AM, Virtual

**Jan 27th**

**ASHRAE Holiday Party**  
5:30pm—9pm

**Feb 12th**

**ASHRAE Chapter Mtg.**  
11:30 AM, Meeting

**Feb 21st**

**Board of Governors**  
8:00 AM, Meeting

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

## CHAPTER HISTORY (1973-1974)

<b>President:</b>	James Tudas	Trane Co.
<b>Vice Pres:</b>	John Kolb	Lorenz & Williams
<b>Secretary:</b>	George Reinker	Honeywell
<b>Treasurer:</b>	Jack Rosati	Chrysler Airtemp
<b>BOD:</b>	Almar Fraley	Hughes Bechtol
	Gene Hughes	Hughes Bechtol
	Ken Wehrkamp	Helmig & Lienesch
<b>Education:</b>	Howard Brown	
<b>Research Pro.:</b>	J.R. Patterson	Trane
<b>Membership:</b>	Frank Mauro	Johnson Service

*Meetings held at Carillon Cafeteria  
CRC held in Dayton  
Regional Director: Chuck Sepsy*

## Committee Chairs

### **MEMBERSHIP**

**Vincent Caudill**

Vcaudill@ecomfortohio.com  
Environmental Comfort, LLC

### **HISTORY**

**Bryan Schenck**

Brian.Schenck@GoWaibel.com  
Waibel Energy Systems

### **COMMUNICATIONS**

**Nathan Lammers**

Nathan.Lammers@waibelenergy systems.com  
Waibel Energy Systems

### **RESEARCH PROMO**

**Brian Turner**

bturner@elitaire.com  
Elitaire

### **STUDENT ACTIVITIES**

**Andrew Chiasson**

andrew.chiasson@udayton.edu  
University of Dayton

### **CTTC**

**Evan Nutt**

ENutt@elitaire.com  
ElitAire

### **GOVERNMENT AFFAIRS**

**Jennifer Butsch**

Jennifer.butsch@emerson.com  
Emerson

**YEA (Chair)**

## Board of Governors

**Rick Pavlak**

Heapy

**Lorraine Kapka**

Sinclair College

**Brian Turner**

Elitaire

# MEMBERSHIP

## New Members

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

### December:

**Graham Hunter & Belinda Schuermann**

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

You can go to [http://web.ashrae.org/connect\\_a\\_colleague/](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: Josh Jones**  
**10 Years: Bryan Schenck**  
**40 Years: Don Engle Jr.**



## **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](mailto:vcaudill@ecomfortohio.com) or by calling 740-971-7795.

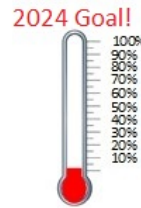
**[Membership Application Here](#)**

# ASHRAE RP

Happy New Year! We hope everyone enjoyed the holiday season. As the new year begins, we are preparing for our Dayton RP fundraising event. Keep an eye out for an announcement regarding the 2024 ASHRAE golf outing....details to follow soon. For those interested, 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 .

2022 Goal = \$ 19,680  
YTD = \$ 2,300  
To go = \$ 17,380



% to 2023-24 GOAL: 12%

## Partner Level

## Honor Roll

## Bronze Level

Larraine Kapka  
Steven Meier  
Brian Turner  
Bryan Schenck  
Evan Nutt  
Rick Pavlak  
Matt Dill  
Jennifer Eller  
Kevin Sturm  
Jennifer Butsch

## Silver Level

## Honorable Mention

Mark Mehicic  
David Crosley  
Jeremy Fauber

**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 News

The Dayton Chapter looking for a Young adult to fill the position Of YEA (Young Engineers) Chair & Membership Promotion



Shaping Tomorrow's  
Built Environment Today

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!

You can email Jennifer Eller at  
[jmeller@heapy.com](mailto:jmeller@heapy.com) or one of the  
other board members



ANSI/ASHRAE Standard 228-2023

## Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance

Approved by the ASHRAE Standards Committee on February 4, 2023; by the ASHRAE Board of Directors on February 9, 2023; and by the American National Standards Institute on March 5, 2023.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a document program for the publication of addenda or revisions, including procedures for timely, documented consensus action or requests for changes to any part of the Standard. Information for how to submit a change can be found on the ASHRAE website ([www.ashrae.org/standards-maintenance](http://www.ashrae.org/standards-maintenance)).

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) or from ASHRAE Customer Service, 180 Technology Parkway, Reston, Virginia, CA 20192. E-mail: [orders@ashrae.org](mailto:orders@ashrae.org); Fax: 619-629-2427; Telephone: 619-629-9933 (worldwide), or toll free: 1-800-541-9512 (for orders in US and Canada). For reprint permission, please visit [www.ashrae.org/permissions](http://www.ashrae.org/permissions).

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ASHRAE includes specifications for consistent evaluation. Click a reference to see notes, titles, figures or equations and jump to the location in the document.



ASHRAE Standard 228 sets requirements for evaluating whether a building or group of buildings meets a definition of “zero net energy” or a definition of “zero net carbon” during building operation.

Standard 228 draws from ASHRAE Standard 105, among others, to address energy and carbon flows across a site boundary, their measurement, and their balance.

- It includes allowances for sites that lack opportunity to produce adequate renewable energy, while placing additional requirements on the use of external carbon and renewable energy in the calculation.

- The standard defines the calculation of energy in terms of *source*—a multiplier on the energy crossing the site boundary to include energy used or lost in extraction, generation and transit to the site.



## ASHRAE Publishes First Zero Energy and Zero Carbon Building Evaluation Standard

- The main energy calculation is made in terms of annual average factors, but allowance is made for the calculation of individual hours where data available.



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ChicaGO!

Join us for HVACR's most  
comprehensive event

Register Now >>>

## **ASHRAE Joins Letter Urging FHFA to Require Modern Building Energy Codes**

ASHRAE joined nearly 80 organizations in urging Federal Housing Finance Agency (FHFA) Director Sandra Thompson to require that new homes with mortgages guaranteed by the Federal National Mortgage Association (Fannie Mae) and the Federal Home Loan Mortgage Corporation (Freddie Mac) meet minimum building energy codes (IECC 2021 or ASHRAE Standard 90.1-2019), consistent with a pending proposal from HUD and USDA. The letter comes in the wake of more federal agencies adopting modern building energy codes (e.g. Standard 90.1-2019 was recently adopted by Treasury), as well as a swath of federal funding opportunities from the Infrastructure Investment and Jobs Act (IIJA) and the Inflation Reduction Act (IRA), including \$1 billion to help states bring their building codes and standards up to more recent editions. FHFA was formed by law, in part, as a response to the subprime mortgage crisis, to regulate the housing finance agencies to protect consumer investments. A copy of the letter can be found [here](#).

## **COP28 Opens with U.N. Reporting that 2023 Will Go Down in History as the Hottest Year Yet**

Surprising few delegates, the United Nations reported that 2023 will go down in history as the hottest year on record. The U.N. Secretary General emphasized an alarming rise in greenhouse gas levels, global temperatures, and sea levels. Climate scientists continue to warn the world that urgent action is needed to prevent irreversible damage. The U.N. addressed its message to national leaders and their delegates at COP28, who have the hard task of trying to keep a 1.5 degree warming limit alive. Experts also warned that due to a strong El Nino year, 2024 is also expected to be warmer than average and that the new year could easily challenge 2023 for the title of hottest year on record. You can read a full analysis of the U.N. report [here](#).

## **DOE Publishes a Notification of Proposed Determination and Request for Comment Pertaining to Standards for Consumer Furnaces**

On November 29, the U.S. Department of Energy (DOE) published a [notification of proposed determination and request for comment](#) on energy conservation standards for oil, electric and weatherized gas consumer furnaces. Per the Energy Policy and Conservation Act (EPCA), DOE is responsible for setting and evolving energy conservation standards for consumer products and some commercial and industrial products. In this notice, DOE has determined that there is no need to amend current energy conservation standards for:

- Mobile home oil-fired furnaces
- Non-weatherized oil-fired furnaces
- Weatherized oil-fired furnaces
- Weatherized gas furnaces
- Electric furnaces

DOE will be accepting public comments until January 29, 2024 and comments can be submitted using the Federal eRulemaking Portal at [www.regulations.gov](http://www.regulations.gov) under docket number EERE-2021-BT-STD-0031.

## USGBC Releases State of Decarbonization

The U.S. Green Building Council (USGBC) released a report at COP28 titled, *State of Decarbonization: Progress in U.S. Commercial Buildings 2023*. The report analyzes commercial real estate sector progress, currently available data, and approaches to reducing carbon emissions of commercial buildings in the United States. Some of the key takeaways from the report include recognition that absolute operational emissions from U.S. commercial buildings have stabilized, historically vulnerable communities see less investment and higher barriers to decarbonization, there is a need for benchmarking policies for commercial buildings, and there must be a prioritization on the expansion and enforcement of energy codes across all states. The report also provides findings on embodied carbon, Inflation Reduction Act (IRA) incentives and impacts, and the influence of corporate climate commitments and emission reporting. This resource follows another report published earlier this year by RMI and USGBC titled, *Driving Action on Embodied Carbon in Buildings*. You can download a copy of the new USGBC report [here](#).

## New Analysis Shows Geothermal Heat Pumps Can Decarbonize Buildings

The U.S. Department of Energy (DOE) announced results of [an analysis](#) highlighting that, deployed at mass scale, [geothermal heat pumps](#) (GHPs) could decarbonize heating and cooling and save energy in U.S. buildings while reducing the need for new grid transmission. The analysis finds that, coupled with building envelope improvements, retrofitting around 70% of U.S. buildings with GHPs could reduce electricity demand by as much as 13% by 2050 versus decarbonizing without GHPs. This reduction in demand would avoid as much as 24,500 miles of new grid transmission lines by 2050—enough to cross the continental United States eight times. [Read more](#)

## Elevated Winter Air Pollution Increases Risk of Lung Diseases

New research warns of the heightened risk of respiratory diseases, such as asthma, chronic obstructive pulmonary disease and pneumonia during the winter season. The rise in cases is attributed to escalating air pollution levels and the drop in temperature. Maintaining indoor air quality is essential and can be achieved by minimizing the use of chemical cleaners, opting for natural ventilation and using air purifiers. [Read more](#)

## Unlocking Sustainability in Building Systems: A Guide to Whole Life Carbon for MEP Systems

Mechanical, electrical, and plumbing (MEP) systems are the lifeblood of buildings, ensuring occupant comfort and operational functionality. However, they also contribute significantly to a building's energy consumption and carbon emissions. This article dives into MEP systems, embodied and operation carbon and the upcoming ASHRAE guide "Whole Life Carbon for Building Systems," which aims to be a comprehensive resource for engineers, designers, operators and owners in approaching sustainability in building systems. [Read more](#)

# ASHRAE News

## ASHRAE JOURNAL Podcast

*ASHRAE Journal Podcast Episode 31*

### **Tackling the Climate Crisis With 2023–24 ASHRAE President Ginger Scoggins**

Join ASHRAE Journal Managing Editor Kelly Barraza and ASHRAE President Ginger Scoggins as they discuss tackling the climate crisis, approaching issues of cost when implementing decarbonization strategies and what's in store for the rest of Scoggins' tenure.

[Listen](#)



*Ginger Scoggins, P.E., Fellow ASHRAE, 2023-24  
ASHRAE President*

## ASHRAE Endorsed Conferences & Events

