



# DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE II | 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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**February 12th, In person**

**Main Presentation: Regulatory Update—Refrigerants & Decarbonization Trends**

**Presenters: Alex Ayers, VP of Gov. Affairs for HARDI & Jennifer Butsch, Dir. Of Regulatory Affairs for Copeland**

**Social Hour: 11:30-11:55 am : Chapter Business: 11:55-Noon  
Lunch & Main Presentation: Noon**

Meeting location will be at: **THE HELIX INNOVATION CENTER  
AT COPLAND - 40 WEST STEWART STREET, DAYTON**

**Theme: Membership Promotion / Joint Meeting with HARDI**

**Topic:** This session will discuss regulatory updates as they apply to Ohio and surrounding regions, including HFC refrigerant regulations (AIM Act), codes and standards updates (UL, ASHRAE, DOT, Warehousing), and electrification of space heating (IRA).

Alex serves as HARDI's primary lobbyist and policy expert. Alex has spent over a decade lobbying on the federal level and published papers and studies in various policy areas including taxes, energy, agriculture, and economics and has testified on tax policy. His research has been cited by organizations such as the Wall Street Journal, Forbes and the Tax Foundation.

Jennifer has been involved in regulatory affairs across multiple industries for more than 20 years. In her current role, she is responsible for managing activities related to policies, regulations, codes and standards as they apply to the air conditioning and refrigeration markets. She is involved in several industry organizations, including AHRI, ASHRAE, and Women In HVACR.

Please use the Eventbrite link to **sign up by Feb. 8th**. Please register if you plan to attend.

**Eventbrite Link:** <https://www.eventbrite.com/e/dayton-ashrae-chapter-meeting-tickets-814135189267?aff=oddtcreator>

# FROM THE PRESIDENT

Please make sure to sign up for this month's meeting on Regulatory update on Refrigerants & Decarbonization Trends. We are pleased to have both Alex Ayers and Jennifer Butsch to present this information.

Our Annual ASHRAE Golf outing is scheduled for May 24th. More information is to come so please make sure to watch the Newsletter for sign-up.

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)

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

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Waibel Energy Systems

### **RESEARCH PROMO**

**Brian Turner**

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Elitaire

### **STUDENT ACTIVITIES**

**Andrew Chiasson**

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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

**Larraine 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!

### January:

**Joe Rozsnaki, Dane Wertz &  
Benjamin Berman-Rubio**



**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!

**15 Years: Andrew Huelsman & Tom Fesenmyer**

**20 Years: Sami Zendah**

**35 Years: Bernard Nagengast**

**40 Years: James Davidson**

**55 Years: Thomas Ferdelman**



## **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.

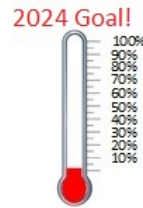
**Membership Application Here**

# 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

Lorraine 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

## Meet the 2024 AHR Expo Innovation Awards Winners

The AHR Expo has announced the winners of the 2024 AHR Expo Innovation Awards in 10 industry categories: building automation, cooling, heating, indoor air quality, plumbing, refrigeration, software, sustainable solutions, tools and instruments and ventilation. These 10 products will compete head-to-head to be awarded the coveted AHR Expo Product of the Year award at the 2024 Show, scheduled for January 22—24 in Chicago. [Read more](#)



## ASHRAE Job Board

**Mechanical Engineer** HDR; Kansas, Mo.

**Assistant and Associate Professor Electrical**

**Engineering** Florida Polytechnic University; Lakeland, Fla.

**Director of the School of Engineering** Eastern Michigan University; Michigan

**Staff Fellow - Biomedical Engineer/Optical Scientist** U.S. Food & Drug Administration; Silver Spring, Md.

**Outside Sales Engineer Disinfection Technology**

**HVAC** ASPR Technologies; New Orleans, La.

**MEP Project Manager** Jacobs; Tabuk, Saudi Arabia

**Data Center Critical Facilities Engineer**

**(HVAC/Mechanical)** Equinix; Sydney, Australia

**MEP Lead HVAC Project Manager** 120 Degreerz MEP Engineering; San Diego, Calif.

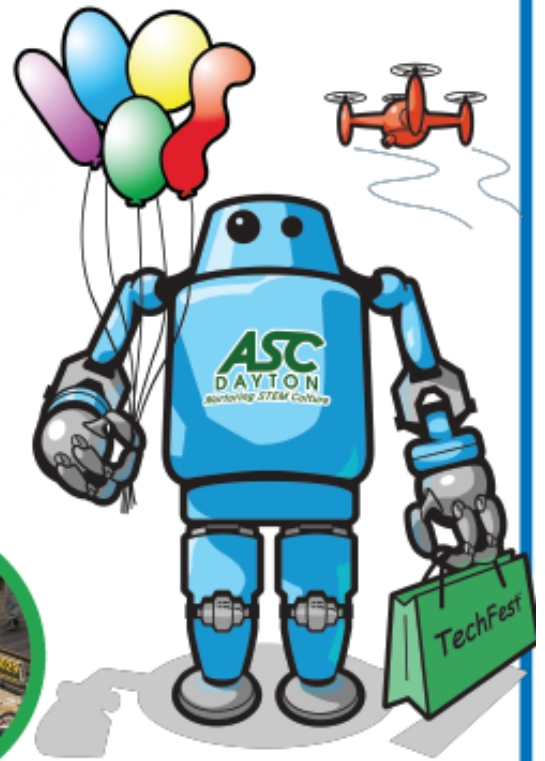
**Renewable Energy Electrical Engineer** Leidos; Redmond, Wash.

**Senior Electrical Design Engineer - Solar Power Plant Engineering** Nexttracker; Fremont, Calif.

[View All](#)

# ASHRAE News

## TechFest™



TechFest™ is a FREE two-day event, with over 80 hands-on STEM activities and over 20 family-friendly INFO-TAINMENT presentations, for all K-12 students! TechFest™ is a creation of the Affiliate Societies Council (ASC) of Dayton, conducted by the ASC since 2003.

**S**cience **T**echnology **E**ngineering **M**ath

Join us at:

**Sinclair Community College - Building 12**  
301 West Fourth St., Dayton, OH 45402

Saturday, February 17, 2024 from 10:00am - 6:00pm  
Sunday, February 18, 2024 from 11:00am - 5:00pm

**FREE ADMISSION FREE PARKING FREE FUN**

Get more information and download a Student Registration Form at:

[www.techfestdayton.com](http://www.techfestdayton.com)

TechFest Dayton Foundation is a component fund of Greene Giving, a nonprofit Ohio corporation, exempt from taxation under Internal Revenue Code section 501(c)(3), a public charity described in section 170(b)(1)(A)(vi) of the Code.

## Carrier Signs Agreement with Montana Technologies to Commercialize Carbon-Reducing Cooling Technology for HVAC Solutions

Carrier Global Corporation announced entry into a binding term sheet with Montana Technologies LLC to develop and commercialize Montana's AirJoule dehumidification and cooling technology. Further, Carrier has conditionally committed \$10 million in growth equity into Montana to foster commercialization of AirJoule technology. [Read more](#)

## Heat Pump Manufacturers Successfully Develop Next-Gen Prototypes for Subfreezing Weather

The U.S. Department of Energy announced that four additional heat pump manufacturers successfully produced heat pump prototypes as part of the [Residential Cold Climate Heat Pump \(CCHP\) Technology Challenge](#), a DOE initiative to accelerate the deployment of heat pump technologies. Launched in 2021, this initiative brings together public and private sector stakeholders to address technical challenges and market barriers to adopting next-generation cold-climate heat pumps. [Read more](#)

## ASHRAE Miami Chapter and President Scoggins Meet with Miami Dade County Officials

On January 9, the ASHRAE Miami Chapter, led by Government Affairs Chapter Chair Haleh Moghaddasi, alongside Society President Ginger Scoggins, held a series of collaborative meetings with the Miami Dade County Office of Sustainability and Resiliency. During these sessions, President Scoggins and the ASHRAE Miami Chapter leadership team engaged in conversations about decarbonization strategies, federal funding, and standards and regulations aimed at hastening the achievement of climate targets. They underscored the vital role



of ASHRAE's guidance and standards as essential tools for organizations dedicated to realizing the nation's decarbonization objectives. Additionally, President Scoggins and Miami Chapter members reiterated ASHRAE's commitment to Net Zero, highlighting the development of new and updated standards, trainings, and other resources which can assist both government entities and engineering firms. Subsequently, President Scoggins delivered a presentation at a Miami Chapter lunch event, encompassing decarbonization terminology, goals, and methods. This session equipped engineers and owners with valuable insights for implementing effective strategies in both new and existing buildings. Emphasizing the building industry's role, the dialogue stressed our responsibility in mitigating greenhouse gas emissions to combat the effects of the climate crisis, underscoring the industry's crucial contribution to emissions reduction.

## **Inmate Attempts Escape Through HVAC System**

Screams were heard from within a wall at a Georgia county jail last week, triggering security concerns and confusion by prison guards. Clayton County Sheriff Levon Allen said the man attempted his escape through the HVAC system of the facility. "This is just unbelievable," Allen said. "That young man did something that nobody has done in 24 years." Now, the sheriff is putting new security measures in place in hopes of preventing this from happening again. [Read more](#)

## **2023 Hottest Year Recorded**

The European Union's Copernicus Climate Change Service determined that 2023 was the hottest year on record, with global temperatures averaging 1.48 degrees Celsius above pre-industrial levels. This level is half-a-degree Fahrenheit warmer than any previous year recorded. Scientists warn that we need to limit warming to 1.5 degree Celsius and governments around the world committed to pursuing efforts to limit warming to this level. To read more about this research, please visit: <https://climate.copernicus.eu/copernicus-2023-hottest-year-record>

## **The United Kingdom Plans Further Nuclear Expansion**

The UK has announced its intention to quadruple the country's domestic nuclear energy supply by 2050. This will require the nation to both complete work on ongoing nuclear projects, and also begin and finish an entirely new project: the planning, siting, and construction of a new nuclear power plant in the small island nation. If completed according to plan, this will be the biggest expansion of the sector in the UK in over seventy years. Proponents of the plan say that it will help the UK meet its climate commitments and create jobs, while critics say that work on ongoing nuclear projects is falling far behind schedule without trying to ambitiously expand the scope and scale of the nation's nuclear power ambitions. You can read a full analysis from the BBC [here](#).

## **DOE Issues RFI for Definition of Zero Emissions Building**

On January 3, the U.S. Department of Energy (DOE) Building Technologies Office (BTO) issued a Request for Information (RFI) on the draft National Definition for a Zero Emissions Building. The request is part of President Biden's broader strategy to achieve net-zero emissions economy-wide by 2050 and a fully clean energy electricity sector by 2035. The information being sought relates to "part 1" of the proposed definition, which concentrates on zero operating emissions. It outlines criteria for zero emissions buildings to be highly energy-efficient, free of on-site emissions from energy use, and powered exclusively by clean energy. Future segments of the definition will likely include considerations like embodied carbon and refrigerants. This definition is crucial for transitioning the building sector towards zero emissions, which is a significant contributor to U.S. greenhouse gas emissions. The full copy of the RFI can be found [here](#). DOE requests that stakeholders to submit their responses by **February 5, 2024**; responses can be submitted [here](#).



# ASHRAE News

## ASHRAE's Latest Edition Performance Standard for Existing Buildings Shifts Focus to Decarbonization

**ATLANTA (January 17, 2024)** – ASHRAE has released the latest version of its energy efficiency standard for existing buildings, with an expanded focus to incorporate building decarbonization.

[ANSI/ASHRAE/IES Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings](#) is a code-ready building performance standard that provides processes and procedures for reducing energy consumption and carbon emissions through improved energy efficiency and performance of all types of existing buildings, including residential, commercial, institutional, and industrial. The latest edition of the standard includes carbon emissions performance requirements for existing buildings, as well as emissions targets for dozens of building types.

“As the demand grows for reduced energy use and carbon emission in existing building, there has been heightened interest in Standard 100 within the past year for its potential to shape building regulations on an expanded level,” said 2023-24 ASHRAE President Ginger Scoggins, P.E., Fellow ASHRAE. “The development of this revised standard underscores our commitment to advancing sustainability measures and responding to the evolving needs of the industry.”

Key updates to the standard are as follows:

- New metrics provided for establishing greenhouse gas emissions targets, along with continued improvements to energy efficiency and performance in existing buildings.
- Building requirements to:
  - ◆ Establish an energy management plan incorporating efficient, low-carbon equipment into capital replacement.
  - ◆ Achieve energy and emissions performance goals
  - ◆ Implement an operations and maintenance program for continued building performance.
- Simple compliance mechanism for energy-efficient and low-emission buildings.
- Energy audit and decarbonization assessment and a separate compliance process for building types that do not have energy or emissions targets.
- Guidance for jurisdictions seeking to develop their own energy consumption and/or greenhouse gas emissions targets.

To purchase Standard 100-2024, visit [ashrae.org/bookstore](https://www.ashrae.org/bookstore) or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada), 404-636-8400 (worldwide) or fax 678-539-2129.

# ASHRAE News

## ASHRAE JOURNAL



Podcast

ASHRAE Journal Podcast Episode 32

### Strainers and Their Uses in Hydronic Systems

Join ASHRAE Journal Editor Drew Champlin and Mike Gallagher as they discuss how strainers are used in hydronic systems along with the differences between wye, basket and inlet strainers and address common mistakes when applying strainers.

Mike Gallagher, P.E., Fellow/Life Member ASHRAE

Listen



## ASHRAE Journal Special Series: Changes to Standard 90.1 Requirements

In 2023, a series of monthly articles on the latest edition of [ANSI/ASHRAE/IES Standard 90.1, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings](#). Articles covered changes to the building envelope, thermal bridging requirements, mechanical updates to HVAC&R and service water heating, energy credits, lighting changes, mechanical system performance rating method and performance path changes. [Read more](#)

## ASHRAE Endorsed Conferences & Events

