



# DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE III | 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

Find Us on

LinkedIn

&

Like

Us on  
Facebook

## March 11th—In person Mtg.



**Main Presentation: Ohio Code Updates—  
Impacts to Engineers & Architects**  
Presenter: Patrick Fernback,  
PE, WELL AP  
Principal & Dir. Of Mechanical Eng.  
For KLH Engineers

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

**Presentation will be at: Engineers Club: 110 E Monument Ave**  
**Theme: Joint Meeting with AIA**

Ohio has adopted updated codes. The previous mechanical and building codes were based on the 2015 I-codes series and the energy code was based on the 2012 International Energy Conservation Code. The updated 2024 codes will update all Ohio codes to be based upon the 2021 I-codes series including the energy code. This is a major update spanning updates from 2012/2015-2021. Patrick will cover the changes on the mechanical code and its impacts to architects and the engineering community. Changes to the energy code will also be cover with some highlights on changes to the building codes that impact coordination between architects and engineers. design.

Please use the [Eventbrite link](https://www.eventbrite.com/e/dayton-ashrae-chapter-meeting-tickets-815582849257?aff=oddtcreator) to **sign up by March 7th**. The Eventbrite link for the March meeting is LIVE. Please register, if you plan to attend.  
<https://www.eventbrite.com/e/dayton-ashrae-chapter-meeting-tickets-815582849257?aff=oddtcreator>

# FROM THE PRESIDENT

Thanks to Jennifer Butsch and Alex Ayers and the Helix for hosting our February meeting on Regulatory Update on Refrigerants & Decarbonization. We appreciate all who joined us for the meeting.

Make sure to sign up for our next presentation on Ohio Code Updates. Should be a lot of great information. This also our Joint Meeting with AIA.

Get your clubs out and start practicing your swing. Our 2024 Golf Scramble will be held again at Pipestone Golf Club on May 24th!! More info to come soon.

We are still looking for someone to Help out with YEA (Young Engineers association), and Membership Chair. Feel free to reach to anyone on the Board if you are interested.

Warm Regards,  
*Jennifer Eller*  
President, Dayton ASHRAE

## Upcoming Events

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

**March 20th**  
Board of Governors  
8:00 AM, Hybrid Meeting

**April 8th**  
ASHRAE Chapter Mtg.  
Technical Tour  
5:30 PM, Meeting

**April 17th**  
Board of Governors  
8:00 AM, Virtual Meeting

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

## CHAPTER HISTORY (1973-1975)

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.:	JR Patterson	Trane Co.
Membership:	Frank Mauro	Johnson Services

*Meetings held at the 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@waibelenergysystems.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!

### February:

## 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: Mr. David L Lewis**

**15 Years: Mr K Colin MacKenzie**

**15 Years: Mr Evan Nutt**

## 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.

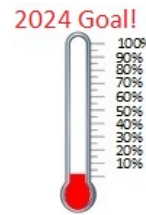
## Membership Application Here

# ASHRAE RP

Spring is right around the corner! With our sights set on warmer days, we are looking forward to the Dayton ASHRAE golf outing on May 24<sup>th</sup>. This outing helps fuel our fundraising efforts for ASHRAE RP. Registration for the event has begun, and you can sign up at [Daytonashraegolf2024.eventbrite.com](http://Daytonashraegolf2024.eventbrite.com). For those that aren't golfers, but would like to contribute to Dayton ASHRAE, 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 = \$ 17,830



% 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!!



# Government Affairs



At the February chapter meeting featured a joint program with HARDI to review the latest regulations around the transition to the next generation of refrigerants. Alex Ayers, VP of Government Affairs at HARDI and Jennifer Butsch, Director of Regulatory Affairs at Copeland shared 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). A copy of the presentation can be found here <https://daytonashrae.org/wp-content/uploads/2024/02/DaytonASHRAEFinal.pdf>



## ASHRAE Members Advocate at the Florida State House



Jacob Moberg (CFL), Bud Goerke (FWC), Ian LaHiff (CFL), Steve Odrzywolski (FWC), Jason Alphonso (CFL), Ruben Abreu (Miami), in the Florida State House standing in front of the State Seal.

A team of ASHRAE volunteers met with eighteen lawmakers and their staff in Tallahassee on February 5th. This team introduced ASHRAE to their representatives, party leaders, and officials on key committees. They shared ASHRAE's public policy priorities, built relationships that will serve the Society going forward, and took the temperature of the legislature on potential legislation to allow municipalities in Florida to adopt stretch codes based on ASHRAE standards. This team of ASHRAE volunteer members included Jacob Moberg, Bud Goerke, Ian LaHiff, Steve Odrzywolski, Jason Alphonso, and Ruben Abreu who represented the Miami, Florida West Coast, and Central Florida Chapters. We thank this great team for their volunteerism, and for their hard work advocating on behalf of ASHRAE in Florida.

# ASHRAE News



WHAT BUILDING CARBONIZATION  
RETROFIT SOLUTIONS ARE YOU MOST  
EXCITED ABOUT?

ASHRAE's bimonthly video series looks at the carbon problem and describes how ASHRAE is leading the way towards a solution. In this fourth video in the series, Jin Wen offers her perspective on some of the most exciting retrofit solutions for decarbonization and explores the differences between retrofits and new construction. Watch now and Join Us on the Journey to Zero. Check out additional resources and videos at <https://www.ashrae.org/decarb>.

## Congratulations to the 2023 Decarbonization Challenge Winning Chapters

Of the 43 projects submitted from 37 different ASHRAE Chapters, nine projects were awarded grants as a part of ASHRAE President Ginger Scoggins' Decarbonization Challenge Fund. This year-long competitive grant program implements decarbonization projects within local chapters, through the YEA Committee with outreach from YEA chairs/committees at each chapter. [Read more](#)

## ASHRAE Chapters Celebrate Engineers Week with Proclamations

Engineers Week 2024 takes place on February 18-24. Engineers Week (EWeek), founded by the National Society of Professional Engineers in 1951, is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of and interest in engineering and technology careers. Each year, ASHRAE chapters proudly submit requests for proclamations by elected officials to affirm and reinforce the importance of the engineering profession and ASHRAE's unique position in the industry.

This year, the Kentucky ASHRAE Chapter, led by Region VII GAC RVC Doug Cage, worked with the office of Kentucky Governor Andy Beshear to issue a signed proclamation for Engineers Week. It will also be included in the ASHRAE booth at Engineers Day at the University of Kentucky on February 24.

The Charlotte ASHRAE Chapter, in Charlotte, North Carolina also worked with the office of Charlotte Mayor Vi Lyles to issue an Engineers Week proclamation. This effort was led by Charlotte Chapter member and ASHRAE Vice President Billy Austin.

Copies of both proclamations can be found on the ASHRAE website [here](#).

## New EPA Funding Opportunity for Indoor Air Quality in Schools

The U.S. Environmental Protection Agency (EPA) recently issued a funding opportunity for Tribes, states, territories, local governments/educational agencies, and nonprofit organizations to enable more low-income, disadvantaged, and Tribal kindergarten through twelfth grade (K-12) schools and/or school districts across rural, suburban, and/or urban areas to monitor and reduce greenhouse gas emissions and indoor air pollutants with comprehensive indoor air quality (IAQ) management plans. These plans must be consistent with EPA's IAQ Tools for Schools Action Kit and Framework, Energy Savings Plus Health Guidance, Preventive Maintenance Guidance, and other EPA recommended IAQ best practices. The funding opportunity is open to states, territories, Tribes, local governments, educational agencies, and nonprofit organizations. Applications are due by **March 19, 2024**. More information can be found [here](#).



[Daytonashraegolf2024.eventbrite.com](https://Daytonashraegolf2024.eventbrite.com)

**COMING SOON! MORE INFO  
ON THE DAYTON  
ASHRAE GOLF**



## **New Solar Technology Produces Clean Energy, Heat**

International researchers developed a new [solar module](#) that uses a curved mirror to concentrate sunlight onto a row of photovoltaic cells, which convert the light into electricity. The excess heat from the cells is then transferred to a fluid that can be used for heating or cooling. The module uses cost-effective and robust silicon solar cells to withstand high temperatures, a mirror made using injection molding technology and a cooling system that allows waste heat to be used for applications including heating and cooling of buildings or industrial processes. [Read more](#)

## **FEMA Issues Guidance on Funding for Net Zero Buildings**

The Federal Emergency Management Agency (FEMA) recently unveiled [new guidance](#) on additional assistance funding for net zero buildings. This funding is available for net zero energy projects related to disaster recovery or mitigation. To qualify, projects must meet or exceed energy performance thresholds and renewable generation requirements specified in the zero energy appendices of the 2021 International Energy Conservation Code (IECC). [Read more](#)



## **Iconic British Hotel Installs Innovative Solar Heat Tech**

New technology will see Mandarin Oriental Hyde Park cut yearly carbon emissions by 7 tonnes, with 120 solar collectors installed on the hotel's roof that will provide hot water for its bedrooms, restaurants and spa. The collectors can generate solar heat up to 120°C. Its unique modular design makes it the world's highest energy density solar heat technology, estimated to reduce more than three times the greenhouse gases per square metre, compared to traditional solar photovoltaic panels. [Read more](#)

*The Mandarin Oriental Hyde Park will be the first British hotel to use Naked Energy's Virtu technology solar "collectors." Credit: The Mandarin Oriental*

# ASHRAE News

## How Texas Kept the Lights on in January's Freeze

In 2021 a deep freeze in Texas claimed at least 246 lives when the power grid failed. In January of 2024, the grid stayed on despite similar weather conditions. Efforts to weatherize energy infrastructure, particularly the natural gas infrastructure that is the backbone of the Texan grid, boosted resilience and performance. Solar power also contributed a small share during the sunny but cold weeks in the middle of January, but wind power lagged other contributors. However, Texas still boasts a considerable percentage of the nation's wind energy production and is a leader in renewable energy by all metrics. This was to Texas's benefit last summer, when wind and solar energy propped up the Texan grid during an intense heatwave. You can read a full accounting of how Texas weathered last month's cold [here](#).

## Heat Pumps Outsell Gas Furnaces in 2023 by a Growing Margin

In the U.S. last year, heat pumps outsold gas furnaces last year by a 21% margin. This represents the largest gap between the technology that the Biden Administration is championing as a major climate solution, and what used to be the most common and popular heating method for American homes. Government incentives, including federal tax credits and rebates, coupled with ambitious targets set by both federal and state authorities, further support the transition to heat pumps. However, challenges remain, such as supply-chain constraints, electrical grid readiness, and consumer readiness, emphasizing the need for continued efforts to streamline adoption and educate the public about heat pump systems. ASHRAE's Task Force for Building Decarbonization continues their work on these issues, which will include a "Guide for Applying Heat Pumps," that will soon be available here [www.ashrae.org/decarb](http://www.ashrae.org/decarb). You can read the full report on the state of the market [here](#).

## Higher-Efficiency Redundancy Strategy for Data Center Cooling

This article discusses an energy-saving approach to hot-standby sparing (HSP) operation and control of cooling system redundancy equipment, which is crucial for ensuring the operational reliability of data centers. It also presents a design case and quantifies the energy savings for data center cooling achieved using this approach. [Read more](#)

## DOE Re-Opens Public Comment Period for National Definition of a Zero Emissions Building

On February 16, the U.S. Department of Energy (DOE) reopened the public comment period for the "National Definition for a Zero Emissions Building: Part 1." The comment period will remain open through **March 6, 2024**. The Federal Register Notice explained that the American Gas Association, American Public Gas Association, and National Propane Gas Association requested a 30-day extension of the comment period to allow additional time for preparation of their comments. In addition, the National Association of Home Builders requested an extension of the comment period due to staffing limitations and the need for additional time. More information about the RFI, along with the portal for submitting responses can be found [here](#).



# ASHRAE News

## ASHRAE Job Board

**Engineer, Senior Controls System** AMETEK; Peabody, Mass.

**Automation & Electrical Engineer** National Fuel Gas; Williamsville, N.Y.

**Energy Efficiency Engineer** Servidyne, LLC; Atlanta, Ga.

**Facilities Engineer** T-Solutions, Inc.; Wallops Island, Va.

**Manufacturing Engineer** AMETEK; Peabody, Mass.

**Engineer/Consultant for Control & Electrical**

**Engineering** DNV; Schoenefeld, Germany

**Senior Mechanical Engineer** DLR Group; Washington, D.C.

**Mechanical Engineer Department Head** Systems West Engineers; Springfield, Ore.

**Senior Electrical Engineer, Mission Critical, Traveler** JE Dunn Construction; Kansas City, Mo.

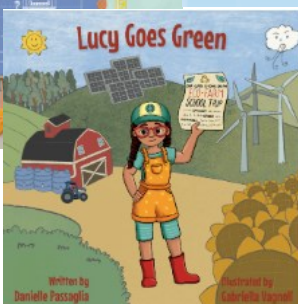
**Sr Electrical Engineer (Frequency Converters)**

**Traction Power - 90203562** Amtrak; Philadelphia, Pa.

[View All](#)



**Lucy Goes Green**  
An eco-adventure inspiring future engineers through STEM.  
Get your copy today! [ashrae.org/bookstore](http://ashrae.org/bookstore)



ASHRAE  
JOURNAL



Podcast

### *ASHRAE Journal Podcast Episode 33*

#### **Live From AHR Expo 2024 - Standard 100-2024 Updates**

Live from the 2024 AHR Expo show floor, Glenn Friedman, Jamie Kono, Mike Williams and Drew Champlin as discuss recent updates to Standard 100-2024 and how decarbonization initiatives are shaping the industry. The new Standard 100 addresses key issues of climate change surrounding building performance, including new metrics for greenhouse gas emissions targets, continuing to carry the heavy weight of improving our existing building stock and meeting global climate change commitments.



From left, Glenn Friedman, P.E., Fellow/Life Member ASHRAE; Jamie Kono, P.E., Associate Member ASHRAE; and Mike Williams, Member ASHRAE

# ASHRAE News

## Get Ready to Ignite Your Career!

Join us for the inaugural Women in ASHRAE Leadership Symposium, a groundbreaking event that's not just a conference, but a career-changing experience! Set in the vibrant city of Chicago on the "Magnificent Mile" on September 26-27, 2024, this symposium is the place to be for aspiring and current leaders in the HVACR industry.

## Empower, Connect, Innovate!

Dive into engaging discussions, draw inspiration from seasoned professionals, and discover powerful strategies to champion inclusivity for women in our field. This isn't just another industry event; it's a launchpad for your future!



## Highlights Include:

- **Real Talk:** Engage in candid conversations about the challenges and triumphs unique to women in HVACR.
- **Empowerment Toolkit:** Gain valuable insights with actionable tools, guidelines, and lessons for success.
- **Mentor Magic:** Connect with mentors who can guide your journey and amplify your impact.
- **Allyship in Action:** Learn how to be an effective ally and sponsor, turning advocacy into action.
- **Emotional Intelligence:** Master strategies for handling tough situations with grace and confidence.
- **Networking:** Forge lasting connections that will propel your career to new heights.

## The Adventure Begins

Kick off Thursday afternoon, September 26, with a keynote that will set the stage for an unforgettable symposium. Then, gear up for a full day of transformative sessions on Friday, September 27.

Don't miss out on this game-changing symposium! Mark your calendars, get excited, and be part of the movement shaping the future of women in ASHRAE and the HVACR industry.



**Learn More Here!**  
Registration opens May 2024.

# ASHRAE News



**Get 12 Months of Virtual Access to the  
2024 ASHRAE Winter Conference**



## **ASHRAE Decarbonization Training at CMPX 2024 | Toronto, ON**

**Real-World Solutions from ASHRAE for Building Decarbonization Challenges in conjunction with the 2024 Canadian Mechanical & Plumbing Exposition (CMPX) held in Toronto.**

### **Introduction to Building Decarbonization**

**Date:** March 20, 2024

**Time:** 9:00 am - 12:00 pm

**Location:** Metro Toronto Convention Centre, Toronto | **Room:** 703 South Building

**Price:** Non-member Price: **\$236**

ASHRAE Member Price: **\$179**

**Register Now**

# ASHRAE News



March 2024 Digital Journal



Learning Institute

**Spring Online  
Schedule is Available!**

Enjoy instructor-led courses  
right from your office.