



DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE IX | 2023

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CO-HOSTED BY **HEAPY**

SEPTEMBER 20, 2023 SINCLAIR COMMUNITY COLLEGE

Save your spot to meet industry leaders and influencers at the 2023 PIVOT conference.

You'll join like-minded professionals committed to environmental sustainability from all walks of life – business, government, non-profit and education institutions, as well as architecture, engineering and construction firms.

Continuing Education Credits Approved!



16 SPEAKERS



4.5 CEU HOURS AVAILABLE



6 BREAKOUT SESSIONS



32 EXHIBITORS



3 NETWORKING HOURS



2 EXPO HOURS

REGISTER NOW

More information on page 5

FROM THE PRESIDENT

We hope that you all have had a wonderful summer. As the summer comes to an end, we are gearing up for another year of great meetings. September will start off with the Pivot conference on September 20th! See details within this Newsletter and make sure to sign up. The Dayton ASHRAE Chapter will have a booth there, so make sure to stop by.

In November we will have the honor of meeting with the President of ASHARE, Ginger Scoggins! If you haven't read her article in Septembers issue, please do, it is very interesting.

The rest of our meetings will be a combination of Lunch or dinners. All meetings will still be Hybrid and worth One PDH. Be on the lookout for the invites.

Thank you,
Jennifer Eller
President, Dayton ASHRAE



Upcoming Events

Sept 13th

Board of Governors
8:00 AM, Virtual Meeting

Sept. 20th

Pivot Conference
Sinclair Community
College

Oct. 9th

ASHRAE Chapter Mtg.
5:30 PM, Hybrid Meeting

Oct. 18th

Board of Governors
8:00 AM, Virtual Meeting

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

CHAPTER HISTORY (1959-1960)

President:	Norman Mitchel	Honeywell
Vice Pres:	Thomas Lutz	Chrysler
Secretary:	Frank Doench	Helmig & Lienesch
Treasurer:	Jerry Ely	Chrysler
BOD:	All officers & Committee Members	

Education:
Research Pro.:
Membership:

Regional Director: Mr. Cider

Meetings were held at the Dayton Engineering Club.

Committee Chairs

MEMBERSHIP

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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!

August: **Jacob Baron**



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!



10 years: James Heidenreich

20 Years: Kevin Rogers

30 Years: Christopher Schreel

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 740-971-7795.

Membership Application Here

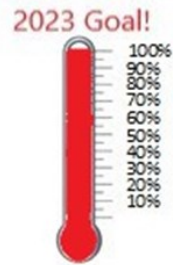
ASHRAE RP

We hope everyone is enjoying the warm weather as the summer season winds down.. At this time, our 23-24 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 23-24 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 .

2022 Goal = \$ 19,680
YTD = \$ 19,790
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!!



More Pivot Info

AGENDA

8:00 AM **REGISTRATION OPENS**

8:30 - 9:30 AM **KICKOFF BREAKFAST** with Inspirational Speaker
Inspiration to Action: Driving Conversations Forward
1 AIA LU/HSW, PDH, GBCI LEED Specific (BD+C, ID+C, O+M) CE

9:30 - 10:30 AM **AM EDUCATION TRACKS** (2 CONCURRENT SESSIONS)

TRACK 1

Seizing Opportunities: UC Receives \$2.9 Million DOE Grant!

1 AIA LU/HSW, PDH, GBCI LEED Specific (BD+C, O+M) CE

TRACK 2

Distributed Energy Systems: Empowering Grid Resiliency and Facility-Level Sustainability

1 AIA LU/HSW, PDH, GBCI LEED Specific (BD+C, ID+C, O+M) CE

10:30 AM - 11:30 AM **EXHIBITORS / NETWORKING**

11:30 AM - 1:00 PM **KEYNOTE PRESENTATION / LUNCH**

Organizational Drive Towards Sustainability

1.5 AIA LU/HSWs, PDHs, GBCI LEED Specific (BD+C, ID+C, O+M) CEs

1:00 PM - 2:00 PM **EXHIBITORS / NETWORKING**

2:00 - 3:00 PM **PM EDUCATION TRACKS** (2 CONCURRENT SESSIONS)

TRACK 1

Learning from the Past and Looking Towards the Future: Indigenous Wisdom, Passive Solutions and AI

1 AIA LU/HSW, PDH, GBCI CE

TRACK 2

Incorporating Sustainability into Strategic Planning

1 AIA LU/HSW, PDH, GBCI LEED Specific (BD+C, ID+C, O+M) CE

3:00 PM - 4:00 PM **NETWORKING RECEPTION**

Cocktails and hors d'oeuvres will be provided

EXHIBITORS

Aeroseal Duct
ASHRAE Dayton Chapter
BeaconMedaes

Belimo Americas
Buckeye Power Sales
BWA South

CenterPoint Energy
Drive Electric Dayton
Eaton

EMCOR Services Automated Controls
GF Piping Systems

HEAPY
Johnson Controls, Inc.
Ketchum & Walton Co.

Kohler Co.
Lathrop Trotter

Melink Solar
Multivista
Ohio Department of Development/Graphet Data Mining

Powerex, Inc
Riffle & Associates/Cree
Schneider Electric

Siemens Smart Infrastructure
Solar Tint & ST Graphics
Solar United Neighbors of Ohio

Stoermer-Anderson, Inc.
Trane US

Tremco Roofing & Building Maintenance
Validated Custom Solutions

Vertiv / Uptime Solutions
Viega LLC
Waibel Energy Systems

ASHRAE News

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



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

Decarbonization Challenge: Applications Now Open!



**CHALLENGE
ACCEPTED:**

Tackling the Climate Crisis



This is a year-long competitive grant (\$1,000 - \$10,000) program to implement decarbonization projects within local chapters. The intent is to provide funds to encourage and demonstrate building decarbonization at the Chapter level which will be financially supported by Society.

>> Apply & learn more at ashrae.org/decarbchallenge.

ASHRAE Joins Letter to FHFA Urging Adoption of Standard 90.1-2019

ASHRAE signed onto a letter led by ACEEE directing Fannie Mae and Freddie Mac (“Enterprises”) to require any mortgages for new homes guaranteed by the Enterprises to meet minimum building energy code requirements (IECC 2021 or Standard 90.1-2019). The letter was addressed to the Honorable Sandra Thompson, Director of the Federal Housing Finance Agency (FHFA), which provides oversight of the Federal National Mortgage Association (Fannie Mae) and the Federal Home Loan Mortgage Corporation (Freddie Mac). The letter identifies how implementing these standards would increase household resilience to financial and climate-driven risks, support systemic stability and reduce market distortions, support mortgage repayment, ensure benefits for low-income homebuyers and renters, and lower costs and assist compliance with updated standards. A copy of the letter can be found [here](#).

North Carolina Legislature Overrides Governor’s Veto, Passes HB 488

On August 16th the North Carolina legislature voted with a three fifths majority to overturn Governor Roy Cooper’s veto of House Bill 488. The bill will now go into effect, and freeze the state’s energy code, as well as the residential, plumbing, and mechanical codes, until 2031. The nearly party line vote culminates five months of advocacy by ASHRAE members and our coalition allies. ASHRAE members advocated against this bill to lawmakers in the state’s capitol during a Day on the Hill event, wrote dozens of emails and letters to lawmakers supporting the governor’s veto, and met with key members of the legislature in the effort to advocate against this bill. While this is not the outcome that we wanted, the ASHRAE Government Affairs team recognizes and commends the Society’s North Carolinian members who went above and beyond the call of duty in their fight for a healthy and sustainable built environment for all.

New Zealand Solidifies Plans to Be First 100% Renewable Energy Country

The government of New Zealand has partnered with a private U.S.-based investment firm, BlackRock Inc., to bolster its effort to become the first country in the world to have a 100% renewable-powered electricity grid. Presently, New Zealand has achieved an 82%renewable-powered grid, but their goal is to reach 100%by 2030. The government will help launch a \$1.2 billion fund that will be used for investing in wind, solar, battery storage, and “green” hydrogen projects. While this is a sizeable investment, BlackRock estimates that \$26 billion would be required to reach a 100%renewable-powered grid.

Treasury Releases Guidance on Tax Benefits for Renewables in Low-income Areas

The Treasury Department was tasked with administering substantial funding through new and existing programs benefitting from the Infrastructure Investment and Jobs Act (IIJA) and the Inflation Reduction Act (IRA). Now, the department has issued guidance for the Low-Income Communities Bonus Credit Program, also known as the section 48 credit. Funded through the IRA, this program provides bonus tax credits for developers of small-scale (less than 5 megawatts) solar and wind projects in low-income communities. The incentive builds on the existing investment tax credit (ITC) extended by the IIJA, and can increase the ITC by up to 20%. The final guidance can be found [here](#).

ASHRAE News

ASHRAE Officer Presents at DOD Workshop

The Department of Defense (DOD) invited ASHRAE Treasurer, Bill McQuade, to speak on a panel at the FY23 Discipline Working Group Workshop. The multi-day conference covered building engineering topics, including decarbonization, management, and quantifying a building's healthiness. McQuade spoke alongside staff from the International Code Council to provide the attendees with information on the "industry code body perspective."

ASHRAE Expert at Agency Working Group

On August 15, Dr. Bill Bahnfleth, Chair of the ASHRAE Standard 241 Project Committee, presented at NASA's Agency IEQ Working Group. Dr. Bahnfleth summarized the requirements in ASHRAE Standard 241, *Control of Infectious Aerosols*. Bahnfleth's presentation was described by NASA as one that can "help guide us in optimizing indoor air quality and reducing the spread of airborne contaminants, as well as mitigate the risk of airborne viruses, including COVID-19 and influenza in high populated work areas."

Boston Mayor Signs Executive Order Eliminating Fossil Fuels in City-Owned Buildings

In July, Boston Mayor Michelle Wu signed an executive order eliminating the use of fossil fuels in HVAC, hot water, and cooking systems in new city buildings and city buildings that undergo major renovations. The order went into effect immediately, and the only projects exempt are those currently in design or under construction. "Major renovations" are defined as projects where structural work is planned for more than 75% of the existing square footage. Municipal emissions in Boston are currently about 2.5% of total carbon emissions, and 70% of municipal emissions are from city buildings, with over 16 million square feet of property. The city is also focused on creating new jobs in the building trades, with a program offering training for Boston residents to learn skills for maintaining building operations at peak efficiency. More information on this job training program can be found [here](#).

Solar Capacity in Southeastern U.S. to Double by 2026

As supply chains improve and federal funding reaches end users, solar energy production is expected to double in the Southeastern U.S. over the next three years according to a new report from the Southern Alliance for Clean Energy (SACE). Florida leads the region today and is expected to continue to build utility-scale solar, ultimately achieving over 17,000 MW by 2026 – close to the same amount the entire Southeastern U.S. produces today. Florida's consistent and sizable investment in solar is helped along by the Inflation Reduction Act and the suspension of tariffs on imports from certain Southeast Asian countries. In contrast, grid updates, permitting reform, and other administrative hurdles continue to be roadblocks. You can read the full report from SACE [here](#).

ASHRAE News

Will Record Heat Push Cities Toward Climate Resilience Tech?

This summer's sizzling air in the U.S.—part of an [extraordinary global heat wave](#)—has put the spotlight on climate resilience technologies. Optimism has grown this summer, at least among those working in climate resilience technology, that the heat and the media coverage of the historic heat wave would lead to more spending in this part of the government technology space. Even so, there are still serious concerns that the money meant for climate resilience won't find its mark, or that the best tools won't gain enough funding. This article dives into how this climate event is affecting countries, infrastructure and how climate resilience technology is innovating to keep up with the heat. [Read more](#)

MIT Engineers Create an Energy-Storing Supercapacitor From Ancient Materials

Engineers at MIT have created a “supercapacitor” made of ancient, abundant materials capable of storing large amounts of energy. Made of just cement, water and carbon black (which resembles powdered charcoal), the device could form the basis for inexpensive systems that store intermittently renewable energy, such as solar or wind. The MIT researchers who developed the system say that their supercapacitor could eventually be incorporated into the concrete foundation of a house, where it could store a full day's worth of energy while adding little (or no) to the cost of the foundation while still providing structural strength. [Read more](#)



JETP is crucial for attempts to limit the global temperature rise to 1.5°C as Indonesia is the world's fourth most populous country and fifth-largest greenhouse gas emitter. Credit: Bay Ismoyo/AFP via Getty Images

Indonesia's \$20B Energy Transition Plan Continues Increased Decarbonization Focus

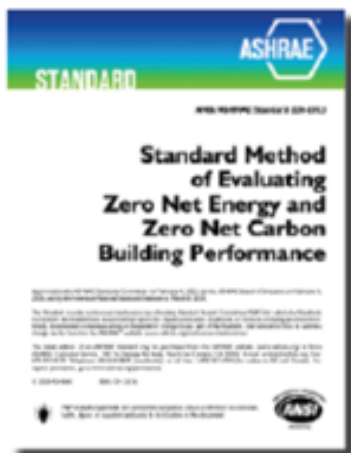
Indonesia's Just Energy Transition Partnership (JETP) has submitted to the country's government a plan of how it will spend \$20B to transition the country to cleaner energy. The international partnership, which was launched last year and is the second following one announced in 2021 for South Africa, aims to “achieve significant new targets and policies to reduce greenhouse gas emissions and support impacted communities” in the country. Among the targets are the peaking of power sector emissions by 2030, the capping of power sector emissions of carbon dioxide in 2030, the goal of reaching net-zero emissions in the power sector by 2050 and the generation of renewable energy to account for at least 34% of all power generation by 2030. [Read more](#)

Department of Energy's Careers in Clean Energy Webinars in September

The U.S. Department of Energy is hosting a series of webinars in September as part of the [Careers in Clean Energy Series](#). This webinar series highlights career opportunities in the Office of Energy Efficiency and Renewable Energy (EERE) and provides participants with a chance to network. The webinars will be presented by EERE leaders, employees, and hiring managers. The September series will include webinars on:

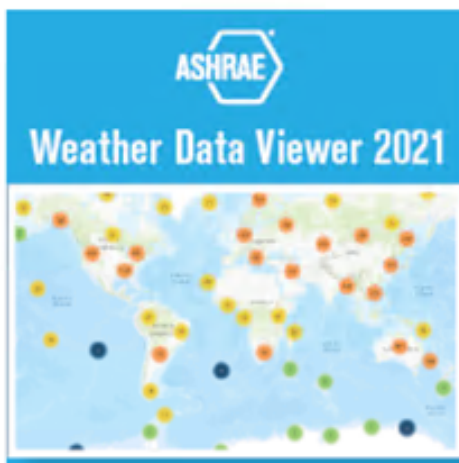
- Business Operations on September 7th
- Sustainable Transportation and Fuels on September 14th
- Renewable Energy on September 21st
- Building and Industry on September 28th

All the webinars are two hours long, and start at 12:00 p.m. Eastern Time. The links to register for each of these events can be found [here](#).



ASHRAE's First Zero Energy Standard

ASHRAE Publishes First Zero Energy and Zero Carbon Building Evaluation Standard 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." Learn more...



ASHRAE's Weather Data Viewer 2021

ASHRAE's Weather Data Viewer 2021 is now available for an annual subscription. The subscription includes cloud-based access to climatic design information for 9,237 weather stations worldwide, including quantities such as dry-bulb temperature, dew-point temperature, wet-bulb temperature, wind speed, and wind direction at various frequencies of occurrence over a long period (8+ years) as well as access to the underlying frequency data for further analysis and visualization. Learn more...

ASHRAE News

ASHRAE's New Decarbonization Video Series



Be sure to let your chapter members know about ASHRAE's new decarbonization video series. New videos featuring ASHRAE members will launch every other month on ASHRAE's social media channels and will also be available on [ashrae.org](https://www.ashrae.org). The first one in the series, *What Excites You About Building Decarbonization*, was just released. It looks at the carbon problem and describes how ASHRAE is leading the way towards a solution. The first video in the series shares decarbonization strategies and technologies ASHRAE members are most excited about as they work toward a more sustainable future. Watch now and Join Us on the Journey to Zero. Check out additional resources and videos at <https://www.ashrae.org/decarb>.

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



Podcast

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.

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