



DAYTON CHAPTER

ISSUE XI | 2021

CURRENT OFFICERS

PRESIDENT

Matt Dill

Matthew.dill@victaulic.com
Victaulic

PRESIDENT-ELECT

Jennifer Eller

jmeller@heapy.com
Heapy

TREASURER

Trent Hayden

thayden@energyoptusa.com
Energy Optimizers, USA

SECRETARY

Zak Schultz

zak.schultz@victaulic.com

Find Us on

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Y&A Networking Event

(Young Engineers in ASHRAE)

**Weather permitting we will meet on
the patio area**

**Contact Phil Reid for any questions:
pareid@heapy.com**



**Thursday: Sept. 16th, 2021
5:30pm to 6:30pm
3022 Wilmington Pike**

FROM THE PRESIDENT

As summer is coming to an end, we are preparing for our monthly meetings set to begin this fall. Our plan is to hold meetings in a hybrid fashion. You will have the option to attend the meetings in person or virtually.

Thank you to all who participated in this year's Chapter Regional Conference. We had the opportunity to meet with leadership in our region as well as leadership at a society level. Many great ideas were shared on how to get more interaction on various committees within our chapter.

Pivot (Formerly Dayton Green Expo) is scheduled for September 15th. It is being held at Sinclair Community College. We appreciate your attendance and support for this event.

If you are looking to get involved with ASHRAE, please reach out to any of the board members or committee chairs.

Matt Dill – President, Dayton ASHRAE

Upcoming Events

Sept 15th

Board of Governors
8:00 AM, Virtual Meeting

Sept 16th

YEA Networking Event
5300 PM, Endora

Oct 20th

Board of Governors
8:00 AM, Virtual Meeting

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

CHAPTER HISTORY (1969-1970)

President:	Tom Ferdelman	Ahart & Associates
Vice President:	Glenn Black	Johnson Service
Secretary:	Richard Pearson	Heapy & Associates
Treasurer:	Almar Fraley	Hughes Bectol
BOG:	Norman Pleimann	Monsanto Research
BOG:	James Benner	Helmig Lienesch & Assoc.
BOG:	James Tudas	Trane Co.

Meetings were held at the Carillon Cafeteria.
Region V Conference was in Evansville Indiana
139 Local Members

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@waibelenergy systems.com
Waibel Energy Systems

RESEARCH PROMO

Tom Mastbaum

tom.astbaum@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

Paul Hawkins

Paul.Hawkins@waibelenergysystems.com
Waibel Energy Systems

YEA (Chair)

Phillip Reid

PAReid@heapy.com
Heapy

Board of Governors

Rick Pavlak

Heapy

Lorraine Kapka

Sinclair College

Evan Nutt

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

No new members

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 Year

Brian Uhlenhake

15 Years

Mark Spears

45 Years

Brian Butler

55 Years

Richard Stroh

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

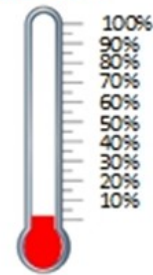
ASHRAE RP

As of right now our goal has not been officially set, but we are believing it will be \$20,000 +. ASHRAE has not yet posted our donations for the year ending in June of 2022, but we know that the Board of Governors is making its pledges for the year, and it looks, even now, that we will again crush our goal in June of 2022!! BUT... right now we have a long way to go. 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.

IMPORTANT: One change that you need to know about: To achieve "Honor Roll" status this year the minimum donation level is \$150. Honor Roll means that your name is published in the ASHRAE Journal, and you receive a Commemorative Gold Coin of a Refrigeration or HVAC Pioneer. We appreciate all donations and a donor your name will appear as a donor in our local newsletter.

2021 Goal = \$ 20,000
YTD = \$ 350
To go = \$ 19,650
% to GOAL: 2%

2022 Goal!



Partner Level

Honor Roll

Bronze Level

Steve Meier
Tom Mastbaum

Honorable Mention

Keith Strayer

Silver Level

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!!



UNICEF Report on Children's Climate Risk

UNICEF has published its [first report](#) measuring the impacts of climate change on the world's children. The report creates a Children's Climate Risk Index that gauges how vulnerable children are to extreme weather and climate stressors. According to the report, countries in the global south are often the least responsible for climate-changing emissions, yet their children are the most vulnerable within the 33 extremely at-risk countries responsible for only 9% of global carbon dioxide emissions. The report also measures the number of children who face more than one significant climate challenge, such as extreme droughts, floods, and severe weather. Almost every child on earth is exposed to at least one of the hazards, with 2.2 billion exposed to two or more, 1.7 billion exposed to three or more, and 80 million children exposed to at least six major climate challenges.

BTO's JUMP into STEM Launches its Fourth Year of Buildings-related Challenges

[JUMP](#) (Join the discussion, Unveil innovation, Make connections, Promote tech-to-market) into STEM is a competition launched by the U.S. Department of Energy (DOE) Building Technologies Office (BTO) which has teams of two to four students enrolled at U.S. colleges and universities solve critical challenges in the field of building science. New this year, winners of the competition will have the opportunity to receive a paid, 10-week internship at one of the national laboratories. This year, the competition includes energy justice across all three of this year's challenge topics:

- Equal Access to Healthy Indoor Air
- Resilience for All in the Wake of Disaster

Solving Market Adoption for Emerging Energy-Efficient Technologies

Challenges close on November 12, 2021. The final competition will be held at ORNL on January 27 and 28, 2022. Read more about this year's challenge [here](#).

Phoenix, Arizona Updates Draft Climate Action Plan and Pilot Program

The city of Phoenix, Arizona, which like many American metropolitan areas has been experiencing record high temperatures this summer, has issued an updated version of its Climate Action Plan that includes an entire section dedicated to heat. Urban heat islands are an increasing concern for city governments and are affected by changes in population density, the number of impermeable surfaces, how well surfaces reflect light, and building height. Strategies proposed by the city of Phoenix for mitigating the heat island effect include increasing overall shade and creating a network of 30 different "cool corridors" through major arterial streets. The city also began a Cool Pavements Pilot Project that applies a coating to asphalt to reflect sunlight, which would prevent roads and other paved surfaces from retaining and releasing excess heat. The latest draft of the Climate Action Plan can be found [here](#).

Infrastructure Package and Budget Update

On August 10, the Senate passed a \$1.2 trillion [bipartisan infrastructure bill](#) with a 69 to 30 vote. House Speaker Nancy Pelosi (D-CA) initially said that the House will not take up the infrastructure bill until the Senate also passes a \$3.5 trillion broader budget bill that includes funding for several social programs and has provisions that would combat climate. However, a group of centrist Democrats recently made it clear that they were against delaying a vote on the infrastructure bill. After negotiations, the House was able to pass a rule on August 24 that advances the budget deal by approving a \$3.5 trillion framework for the budget reconciliation bill while also giving the House a September 27 deadline to pass the infrastructure bill.

The infrastructure package would provide \$550 billion in new spending on roads, bridges, airports, harbors and ports, electric vehicle charging stations, broadband, water systems, the electric grid, buildings, and addresses other policies. The bill is over 2,700 pages and includes a section on buildings with provisions that fund cost-effective code implementation for energy efficiency and resilience. The bill would create an Energy Auditor Training Grant Program that specifically lists ASHRAE's Building Energy Assessment Professional certification among others. Additionally, the bill would provide \$500 million in school facility funding including for improvements to energy efficiency, indoor air quality, and renewable energy at public school facilities.

What's Next for Standard 90.1

In late July, the U.S. Department of Energy (DOE) issued a determination that ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings, improves energy efficiency in commercial buildings compared to the 2016 standard. This makes the 2019 version the reference energy-efficiency standard for this building type. States and other jurisdictions are now required to review their commercial building code regarding energy efficiency and update their codes to meet or exceed Standard 90.1-2019. [Read more](#)

New IEA Report on Empowering Cities for a Net Zero Future

In July, the International Energy Agency (IEA) issued a report analyzing opportunities, challenges, and policy solutions that can help city-level governments achieve their emissions reduction goals. The report states that as societies recover from the Covid-19 pandemic, carbon dioxide emission rates are climbing. The increase in global energy-related carbon dioxide in 2021 is expected to be the second-largest annual increase in recorded history. The report also suggests that digitalization could reduce emissions from buildings by approximately 350 megatons of carbon dioxide by 2050. The full report can be found [here](#).

ASHRAE News

Upcoming Online Instructor-Led Training



Online instructor-led courses presented in real-time from ASHRAE Learning Institute
CEU/PDH Credits Available



LEARN AT YOUR COMPUTER | AFFORDABLE | NO TRAVEL COST | LIVE INSTRUCTOR

Earn Continuing Education Credits
Courses are archived for a period of time after the initial presentation

New! Virus Mitigation in K-12 Schools: A Game Plan for Lasting IAQ Improvement

Tuesday, 07 Sep 2021

12:00 PM to 3:00 PM EDT

This course discusses how leadership for schools, specifically K-12 spaces, are to fiscally implement the facility improvement measures to improve their HVAC systems' ability to mitigate virus transmission. It will also discuss options for typical systems found in schools, the method to evaluate and the fiscally responsible approach of what should be implemented.

Carrier **FREE WEBINAR:** **BMS BASICS FOR CONSULTING ENGINEERS** | Register Now »
Earn CEUs for Attending!
Sept 23rd @ 11am EST

Description: This free webcast will provide an overview of the BMS Basics; points, layouts, protocols, software and advanced functionality.

Receive: .1 CEU Credit

Presented by: Matthew McDaniel, Controls Expert Program Manager - Carrier

Learning Objectives:

1. Define the BMS point
2. Recognize types of inputs and outputs
3. Review controller types and network layouts
4. Discuss protocols and how they affect BMS equipment
5. Learn about software and advanced functionality

Target Audience: HVAC consulting and specifying engineers, HVAC designers, Controls engineers and technicians, Controls Sales staff, building owners, facilities management, and staff.