



ISSUE VII | 2021

DAYTON CHAPTER

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SEPTEMBER 15, 2021 SINCLAIR COMMUNITY COLLEGE

The **PIVOT** conference brings together businesses, government, educators, architects, engineers, contractors, and non-profits committed to environmental sustainability.

This year's conference will focus on **Building a Resilient Future: Knowledge to Action**. Continuing Education credits will be available for AIA, GBCI and PDHs!

The conference will be held on September 15th at Sinclair Community College. Register below to reserve your spot.

8:00 AM	REGISTRATION OPENS
8:30 AM – 9:30 AM	KICKOFF BREAKFAST with Inspirational Speaker <i>Climate Change and More: The Resilience Challenge</i>
9:30 AM – 10:30 AM	AM EDUCATION SESSIONS (2 CONCURRENT SESSIONS) TRACK 1: <i>The True Cost of Carbon: Unequal Impact and Policy Response</i> <i>Pending AIA LU/HSWs, PDHs, GBCI CEs</i> TRACK 2: <i>The Business Case for Intelligent Building Management</i> <i>Pending AIA LU/HSWs, PDHs, GBCI CEs</i>
10:30 AM – 11:30 AM	EXHIBITORS / NETWORKING
11:30 AM – 1:00 PM	KEYNOTE LUNCH: <i>Multi-Sector Action to Mitigate Climate Change</i> <i>Pending AIA LU/HSWs, PDHs, GBCI CEs</i>
1:00 PM – 2:00 PM	EXHIBITORS / NETWORKING
2:00 PM- 3:00 PM	PM EDUCATION SESSIONS (2 CONCURRENT SESSIONS) TRACK 1: <i>Climate Action at the Local Level</i> <i>Pending AIA LU/HSWs, PDHs, GBCI CEs</i> TRACK 2: <i>How Higher Education is Preparing for a Net Zero Future</i> <i>Pending AIA LU/HSWs, PDHs, GBCI CEs</i>
3:00 PM – 4:00 PM	NETWORKING RECEPTION Cocktails and hors d'oeuvres will be provided

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REGISTER NOW

FROM THE PRESIDENT

The Dayton Chapter is wanting to hear from you. We recently sent out a survey to get feedback on how you would like to experience our monthly meetings for 2021-22. Please let us know if you would prefer the meetings to stay virtual or move back to in person.

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.

Would you like to get involved with ASHRAE? If you are interested in being involved at the local or regional level, please reach out to a member of the Board of Governors.

Enjoy the rest of your summer. We look forward to seeing you at our upcoming events.

Matt Dill – President, Dayton ASHRAE

Upcoming Events

Aug 18th

Board of Governors
8:00 AM, Virtual Meeting

Sept 15th

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

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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!

July

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!

1 Year

Keith Alan Strayer
David Zelinski

3 Years

David Erwin

5 Years

Brian Butler

10 Years

Michael Senger



Membership Promotion Committee

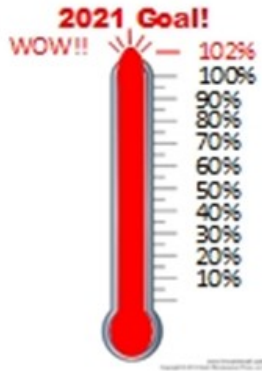
Looking for a way to get involved with your local ASHRAE chapter and meet new people? The membership promotion committee is looking for volunteers to join the committee. The committee's primary responsibility is to recruit new members and retain existing members. If you are interested in serving please contact **Vincent Caudill** at vcaudill@ecomfortohio.com or by calling 740-971-7795.

Membership Application Here

ASHRAE RP

As we had noted last month we again were overachievers in 2021 and went over the top on our 2020-21 Goal. 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!!

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. **If you want to keep your "Coin Collection" going and be published in the ASHRAE Journal, the NEW MINIMUM is \$150 and \$500 for Corporate Donors.**



2021 Goal =	\$ 19,680
YTD =	\$ 20,197
To go =	\$ 0.00

% to GOAL: We made it !!!

Partner Level

Honor Roll

Bronze Level

Honorable Mention

Silver Level

Thanks for all your help and support. If you would like to donate NOW simply click this link:

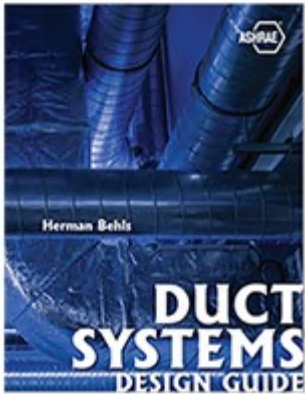


[DONATE NOW](#)

And make your donation to help ASHRAE in its Research Efforts. Thank you so much!!



ASHRAE News



New Resource:

Minimizing Energy Consumption, Noise With Good Duct Design

Ducts in air-distribution systems are designed to transport a given volume of air as efficiently and quietly as possible to minimize energy consumption and eliminate excessive noise. The recently released *Duct Systems Design Guide* is a resource to guide HVAC engineers and designers seeking to develop more energy-efficient, accurate, user-friendly and cost-efficient HVAC duct systems.

[Read more](#)

What's Up With Energy Storage

Energy storage helps maximize the benefits of renewable energy systems and provide resiliency. Industry experts discuss how storage will help move us to a more sustainable future. The [July 2021 edition of ASHRAE Journal](#) also covers how digital currency impacts data centers and explores IIoT cybersecurity issues. Access the newest edition [here](#).

DOE Issues Model Energy Code Determinations for Residential and Commercial Buildings

The U.S. Department of Energy (DOE) has issued its final determination that the updated model building energy codes, the [2021 International Energy Conservation Code \(IECC\)](#) and [ANSI/ASHRAE/IES Standard 90.1-2019](#), will increase energy efficiency in residential and commercial buildings. DOE analysis estimates the following national average savings for buildings meeting the updated code (as compared to the previous respective editions).

[2021 IECC](#): 9.4% site energy savings

[Standard 90.1-2019](#): 4.7% site energy savings

Each State has until July 28, 2023 to certify their state building codes meet the updated editions of the IECC and Standard 90.1. Supporting technical analysis, as well as links to the Federal docket and public comments received, are [available here](#).

Energy-Saving Success Stories: 2021 Building Envelope Campaign Recognition

On July 27, the U.S. Department of Energy held a webinar to recognize participants of DOE's Building Envelope Campaign. These projects represent a diverse range of new construction and retrofit building types, including K-12 schools, commercial real estate, multifamily, higher education, and others. To see the list of all 14 recognized projects and organizations, [click here](#).

DOE Updates State and Local Fact Sheets on ASHRAE 90.1 and IECC

The U.S. Department of Energy has assessed recent editions of ASHRAE 90.1 and the IECC to quantify the associated energy & cost savings. These analyses take into account varying state-level conditions, such as incremental costs, utility rates, climatic conditions and construction trends. The fact sheets for each U.S. state, as well as certain major metropolitan areas, show the specific energy and cost savings associated with adopting the 2021 IECC and ASHRAE Standard 90.1-2019. The fact sheets provide an overview of the expected savings to homeowners and building owners. Links to these fact sheets can be found on the DOE website [here](#).

New "Codes for Climate" Initiative Established to Support Building Decarbonization

The New Buildings Institute (NBI) and RMI recently began a new initiative to support the development and adoption of climate-aligned new construction codes and existing building performance standards for states and cities. The Codes for Climate initiative aims to deliver technical, policy, and implementation support for jurisdictions on codes, standards, and policies aligned with the Paris Agreement. It will use NBI's recently released Building Decarbonization Code overlay to the 2021 IECC as a starting point. Code language will be developed to meet the urgency of achieving a 1.5°-degrees Celsius target in new construction by 2030. More on the Codes for Climate Initiative can be [found here](#).

World Refrigeration Day Event – Monterrey, Mexico

ASHRAE's Monterrey Chapter held their 2nd annual World Refrigeration Day event with the State government's Ministry of Economy and Labor. The event lasted two days and had four panels that focused on employee trainings, refrigeration trends, and the digital and energy transformation in refrigeration. To learn more, [click here](#)

Saying Goodby to R-410A—ARE YOU READY?

The HFC Phasedown means that refrigerants including R-410A will be phased down beginning January 1, 2021. The phasedown schedule calls for a reduction in the production and importation of HFCs as follows; January 2, 2022 by 10%, January 1, 2024 by 40%, January 1, 2029 by 70%, January 1, 2034 by 80%, and January 1, 2035 by 85%.

Replacing HFCs will be Low GWP refrigerants, many of which are classified by ASHRAE as A2L (slightly flammable), and A3 (highly flammable). New equipment manufactured to operate with Low GWP Refrigerants will require the HVACR workforce to utilize different tools and adhere to additional SAFETY STANDARDS when installing or changing out older systems and repairing existing systems in the field. When transitioning to new refrigerants, the industry has a long-standing tradition of providing comprehensive safety training to all industry stakeholders. This upcoming transition is no exception.

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! COVID-19 and Buildings: Re-occupation after Lockdown

Tuesday, 31 Aug 2021

10:00 AM to 12:00 PM EDT

This 2-hour course draws upon guidance from an international team of indoor environment and building system experts assembled by ASHRAE and identifies the equipment and procedures that are essential in protecting occupant health, bringing attendees up to date on the environmental conditions that are recommended to prevent the spread of COVID-19.

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.



Aug. 19, 20201

Automated Logic: Updates to ASHRAE Guideline 36, Keys to Specifying

This free webcast will provide an update on what will be included in the upcoming ASHRAE Guideline 36-2021 "High-Performance Sequences of operation for HVAC Systems" that will be published later this year as a replacement to the 2018 version. In addition, this presentation will provide some guidance on how these sequences can be specified for implementation on projects.

Available now. Click [here](#) for more info.

ASHRAE News



ACHIEVING OPTIMAL INDOOR ENVIRONMENTAL QUALITY (IEQ) WITH VARIABLE REFRIGERANT FLOW SYSTEMS

Free Webinar
AUGUST 17
2 - 3 P.M. EDT.

Emerson Acquisition of 7AC Propels NREL HVAC Technology to Market



Living the dream, for many researchers, might include seeing their inventions move from the lab bench to the marketplace. That is certainly an important goal of the funding used to conduct experimental investigations at the National Renewable Energy Laboratory (NREL). While most efforts do not make it to market, the few that do can lead to important changes. [Read more..](#)

Makeshift Negative Pressure Patient Rooms in Response to COVID-19: Recommendations and Lessons Learned

By Frank Shadpour, P.E., *HFDP*, Fellow Member ASHRAE; Stefanie Johnson

You don't have much time to create negative pressure hospital patient rooms during a pandemic. You can create these rooms quickly using appliances such as portable HEPA exhaust fan units, along with guidance from relevant codes and standards and hospital requirements. [Download here](#)



Olympic Stadium to Use Energy-Conserving HVAC System

The air-conditioning system conserves energy by using heat from vaporization. [Read more](#)

ASHRAE Job Board

- | | |
|--|--|
| Commissioning Agent TEESI Engineering (Texas Energy Engineering Svc Inc); Austin or San Antonio, Texas | Energy Modeling Engineer/Project Manager Confidential; Denver, Colo. |
| Mechanical Engineering Project Leaders/Group-Team Leader Dufoe Consulting Engineers; San Diego, Calif. | Manager, Construction Project Management Children's Hospital of the King's Daughters; Norfolk, Va. |
| Senior Mechanical Engineer/Designer OCI Associates, Inc.; West Palm Beach, Fla. | Principal Mechanical Engineer Facilities - 90290803 - Philadelphia Amtrak; Philadelphia, Pa. |
| Commissioning Group Leader SMMA; Cambridge, Mass. | Director, Health System Facilities UCLA Health; Los Angeles, Calif. |

[View All](#)