



DAYTON CHAPTER

WWW.DAYTONASHRAE.ORG

ISSUE II | 2023

CURRENT OFFICERS

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Matt Dill

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Victaulic

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Uptime Solutions

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Feb 15th Hybrid Meeting!!!

**Main Presentation: Updates to 2022 Ed. of
ASHRAE Standard 15 for Flammable
Refrigerants**

Presenter: Stephen Spletzer
Principal Engineer for The Chemours Company



Social Hour: 11:30-11:55am

Chapter Business: 11:55-Noon

Main Presentation: Noon

**Presentation will be at: The Helix Innovation Center by Emerson
40 West Stewart Street, Dayton**

Theme: Membership Promotion / Joint Meeting with HARDI

Stephen Spletzer has spent almost three decades in ACR applications, working for both equipment and refrigerant manufacturers. His responsibilities have included equipment design and testing, tech service, industry training, and development of educational programs, literature, and mobile apps. Now with Chemours, Stephen continues to support our industry through Codes & Standards activities, where he serves on a number of committees and working groups related to ACR systems. He is currently a member of ASHRAE SSPC 15 and the Vice-Chair of SPC 15.2.

The 2022 edition of the ANSI/ASHRAE 15 safety standard contains more updates than any edition before. Most of these updates are related to the growing use of lower Global Warming Potential (GWP) refrigerants by the air-conditioning and refrigeration (ACR) industry, many of which are flammable. This presentation will provide an overview of these changes, and how they affect you.

Please use the Eventbrite link to sign up by February 10th. The Eventbrite link for the January meeting is LIVE. Please register, if you plan to attend. <https://www.eventbrite.com/e/dayton-ashrae-chapter-meeting-tickets-514913579377>

Join Zoom Meeting Information:

<https://us02web.zoom.us/j/86928222324?pwd=N05SRzZaK1o3RXITZ3pNRjJLaE5BQT09>

FROM THE PRESIDENT

Thank you to everyone that attended our Holiday party. We hope you enjoyed the delicious food and great conversation.

Our next chapter meeting is scheduled for Wednesday, February 15th. This meeting is being held at the Helix Innovation Center by Emerson. Stephen Spletzer will present the updates to the 2022 Edition of ASHRAE Standard 15 for Flammable Refrigerants. This will be a joint meeting with HARDI.

Our 2023 Golf Outing is scheduled for Friday, May 26th, at Pipestone Golf Course. Additional details coming soon.

We are looking for a Government Affairs Chair. Please reach out to a member of board if you are interested.

Thank you, *Matt Dill*— President, Dayton ASHRAE

Upcoming Events

Feb. 15th

Board of Governors
8:00 AM, Virtual Meeting

Feb. 15th

ASHRAE Chapter Mtg.
11:30 AM, Hybrid Meeting

March 15th

Board of Governors
8:00 AM, Virtual Meeting

March 16th

ASHRAE Chapter Mtg.
11:30 AM, Hybrid Meeting

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

CHAPTER HISTORY (1981-1982)

President:	Michael Nauman	Heapy Engineering
Vice Pres:	Robert Stan	Stan & Associates
Secretary:	Mark Ganser	Trane Co.
Treasurer:	Jack Putnam	Lorenz & Willams
BOD:	Jim Oost	Eaton Corp.
	Bob Shultz	WPAFB—AFIT
Education:	Bob Shultz	WPAFB—AFIT
Research Pro.:	Jim Wasson	Wasson Engterprises
Membership:	Jack Rosati	Carrier Corp.

Regional Director: Joe Olivieri

Meetings were held at the Dayton Engineering Club.
CRC held in Grand Rapids Michigan.

Total Members: 77

Committee Chairs

MEMBERSHIP

Vincent Caudill

Vcaudill@ecomfortohio.com
Environmental Comfort, LLC

HISTORY

Bryan Schenck

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Waibel Energy Systems

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YEA (Chair)

Phillip Reid

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Heapy

Board of Governors

Rick Pavlak

Heapy

Lorraine Kapka

Sinclair College

Jennifer Eller

Heapy

MEMBERSHIP

New Members

The Dayton Chapter is happy to welcome its newest members. If you see them please give them a warm welcome!

January: Jacob Moubray, Haithem Murgham ,
Trevor Jacobs, Emmanuel Tshiala,
Samuel Bankson, Bruce Barnes & Brian Henderson



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!

5 Years: Jeff Turner

10 Years: Torrey Gerdes



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 513-512-5359.

Membership Application Here

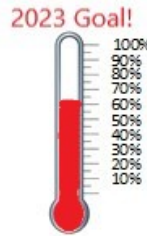
ASHRAE RP

Thank you to everyone who have contributed to the 22-23 ASHRAE campaign thus far. We are half way through the 22-23 campaign, and we still have a ways to go to meet our goals. For those looking to contribute, 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 .

2021 Goal = **\$ 19,680**
YTD = **\$ 13,150**
To go = **\$ 6,530**

% to GOAL: **67%**



Partner Level

Emerson

Honor Roll

Steve Meier
Lorraine Kapka
Brian Turner
Jennifer Eller
Evan Nutt
Bryan Schenk
Matt Dill
Rick Pavlak
David Crosley
Jeremy Fauber
Kyle Schroeder

Bronze Level

Russell Marcks
Uptime Solutions

Silver Level

Honorable Mention

Zak Schultz
Kort Kugel
Vincent Caudill

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 Info

ASHRAE Job Board

Mechanical Engineer Design Engineers, P.C.; Cedar Rapids, Iowa
Lead Mechanical Engineer The U.S. Army Corps of Engineers; Concord, Massachusetts
Professional Engineer Payne + Dolan, Inc. a Walbec Group Company; Appleton, Wisconsin
Mechanical Project Engineer Millies Engineering Group; Munster, Indiana
Associate Director, Energy Management Systems University of Miami; Miami, Florida

Senior Test Systems/Electrical and Instrumentation Engineer Vital Materials Co., Limited; Bowling Green, Ohio
Lead Mechanical Engineer SLAC National Accelerator Laboratory; Menlo Park, California
HVAC Technician 1 University of North Carolina at Charlotte; Charlotte, North Carolina
Senior Design Engineer, Electrical Fluor Corporation; Greenville, South Carolina
Electrical Design Engineer Saint-Gobain; Faribault, Minnesota

[View All](#)

\$\$\$ Dayton Chapter ASHRAE Scholarships Available!!! \$\$\$



The Dayton Chapter of ASHRAE is offering 2 scholarships available to current college students (have completed at least 12 hours of instruction) for 2 and 4-year students in a field of study related to the Built Environment. The Keller Scholarship is \$1500 and restricted to a UD student (could be a student transferring into UD). The Chapter Scholarship are each \$1000 and are available to all. Please note that the applicant must either be a student ASHRAE member or a close relative (spouse, child, grandchild) of a current Dayton ASHRAE member. The ASHREA number for the student or relative sponsor must be included in the application. Funds paid directly to the school. All applications are electronic and can be submitted through the Dayton ASHRAE website

www.daytonashrae.org. Applications are due **February 28, 2023.**



ASHRAE Info

TechFest™



TechFest™ is a FREE two-day event, with over 70 hands-on STEM activities and over 25 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.

Science **T**echnology **E**ngineering **M**ath

Join us at:

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

Saturday, February 18, 2023 from 10:00am - 6:00pm
Sunday, February 19, 2023 from 11:00am - 5:00pm

FREE ADMISSION FREE PARKING FREE FUN

Get more information and download a Student Registration Form at:

www.daytontechfest.com



The Affiliate Societies Council of Dayton is a 501(c)(3) non-profit public charity.

ASHRAE Info

Save the Date!!!

2023 ASHRAE

Annual Golf Scramble



**Friday May 26th, 2023
Pipestone Golf Course
4344 Benner Rd, Miamisburg**

Registration covers the green fee, cart, lunch, two drink tickets, and one mulligan. This year as opposed to doing mulligan cards, every participant will have one traditional mulligan. Click below to sign up and for detailed info!!

<https://Daytonashraegolf2023.eventbrite.com>



ASHRAE News

Sinclair Community College HVAC Students to Present at the ASHRAE Winter Meeting

As many of you know, the ASHRAE Dayton Chapter hosts two Student Branches: the UD Student Branch and the Dayton Area Student Branch. The Dayton Area Student Branch encompasses several schools including Sinclair Community College, Wright State University, Cedarville University, and the Air Force Institute of Technology. The Dayton Area Student Branch operates from Sinclair Community College under the guidance of Professor Russell Marcks as the Dayton Area Student Branch Advisor and the current Chapter Student Activities Chair.

Last year, Professor Marcks submitted an ASHRAE Undergraduate Program Equipment Grant for students to install an 8-ton Mitsubishi VRF system with two heads. There is a possibility of adding a third head in the form of a traditional DX AHU with an LEV kit. This application was well received and garnered a first place in a global competition with 80+ applicants.

Upon completion of the judging of these applications, students for the number one and number two successful applications are invited to the student-centric Winter Conference. In a pre-COVID environment, this conference was attended by 400+ students from around our world.

This is not the first time a Sinclair Grant Application finished high. Professor Marcks has submitted 10 grant applications over the years, and all have been funded for a total of \$45000 plus. On top of that, generous donors have provided someplace close to three times that amount in equipment. Of those ten grants, four have finished in the top five. Two finished with a number two ranking. In one case, we sent two students to present a control board project simulating the operation of a Carrier 15-ton Chiller. Unfortunately, in the second case, we were interrupted by COVID. But we did submit a video for presentation at the virtual conference that year. The video addressed the installation of a six station Mini-Split system. However, the VRF installation grant application achieved a number one placement. This has special meaning.

This year's Winter conference is in Atlanta. With the support of ASHRAE Society, ASHRAE Dayton Chapter, and Sinclair Community College, we have four students attending the Winter Conference presenting this project in the form of a poster session. We are hoping this poster session can be recreated at a future Chapter meeting. But even more importantly, and for the special meaning of a first-place ranking, the students will receive an award for this project in front of their peers and other ASHRAE members in attendance!

These students are working hard on this project. Rick Pavlak (Heapy retired) and Mike Kirchens (ElitAire) have provided mentorship regarding the preparation of these students to conduct this project. They, and other volunteers, intend to make additional mentorship appearances this semester as well along. The students will install a VRF system to supplement our two-zone VAV AHU unit, our geothermal unit, our 15-ton primary-secondary system, our 40-ton Built-up Chiller, our Chiller Control simulators, our medium temperature walk-in cooler, our Tridium Niagara control system boards, our 6-station Mini-Split stations, etc...all designed and installed by students. The students participating on this project deserve recognition. Please join me in applauding the work of this group of students.

Continued on next page.....

ASHRAE News

Article Continued.....

I wish to thank Tom Homan of Allied Supply for donating this complete Mitsubishi system. This project would not be possible without his continued support.

I also wish to thank all persons who have shown support through membership on the advisory committee, as guest lecturers, and to provide equipment donations in support of these ASHRAE funded grants. Your efforts have culminated in of what I believe is something the Chapter can be proud.

Please support your local students...these folks are our future in HVAC!

Russell Marcks, PE
Professor
HVAC&R Technology
Sinclair Community College



2023 HVAC Cold Climate Conference

March 6-8, 2023

Registration for the 2023 HVAC Cold Climate Conference is now open! Co-sponsored by ASHRAE and SCANVAC, the goal of the conference is to share solutions and advancements addressing changes in climate while experiencing the culture of Alaska .

Learn more and lock in the lowest rates at ashrae.org/2023hvaccoldclimate!

ASHRAE News

Engineers Week Starts February 19th, Submit Your Proclamation Requests Now!!

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, Engineers week runs from February 19th to the 25th.

You can read more about the Engineers Week program and events [here](#). To download a draft proclamation, visit the "Proclamations and Resolutions Toolkit" section on the ASHRAE website [here](#), and for assistance contacting your local, state, or federal government officials to request a proclamation please [contact](#) the Government Affairs Department at GovAffairs@ashrae.org.

Newly Released ASHRAE 90.1-2022 Includes Expanded Scope For Building Sites

ATLANTA (January 25, 2023) – ASHRAE has released its latest version of its benchmark energy efficiency standard, [ANSI/ASHRAE/IES Standard 90.1-2022, Energy Efficiency Standard for Sites and Buildings Except Low-Rise Residential Buildings](#). The latest version includes an expanded scope for building sites and major additions appearing for the first time in a minimum-efficiency U.S. model energy standard or code.

“We have identified some ambiguity in the standard by offering guidance on regulating only buildings and not sites,” said ASHRAE Standing Standard Project Committee 90.1 chair Don Brundage. “Examples include exterior and parking lot lighting, which if not provided through the main electric panel in the building, were not within the scope of Standard 90.1 previously. Including sites also clarifies that onsite renewables could count as credits towards energy usage across the entire building project, even if located in a parking lot or other onsite location, not only within the footprint of the building. We are continuing to improve efficiency and reduce energy use through updates to Standard 90.1, meeting the needs of the design community and keeping Standard 90.1 pertinent, as demand grows for reduced energy use and carbon emissions.”

The Year's Energy Genius Award Winner

Enhancements to mechanical and electrical systems during renovation at a city center office building in Shanghai, China, has reduced its energy use intensity by 19%. The 40-story reinforced concrete building is owned by China Pacific Insurance (Group) Company Ltd., prominent in the city's Xu Hui District for its unique location and building energy performance. It is also the recipient of the 2022 Energy Genius Award, which recognizes excellence in the assessment of building energy performance. [Read more](#)

ASHRAE News

DOE Announces a Group of New Clean Energy Programs

The Inflation Reduction Act infused several existing programs with funding in addition to establishing entirely new programs. The U.S. Department of Energy (DOE) announced a request for information (RFI) for the Home Energy Rebate program, which provides \$8.8 billion in rebates for consumers to pursue products and services that reduce energy bills and carbon emissions while improving overall home comfort. The funds are distributed through the Office of State and Community Energy Programs (SCEP). Comments for the RFI are due March 3rd and can be submitted [here](#).

The Energy Efficiency and Conservation Block Grant Program (EECBG) opened the application process for \$430 million in grant funding that states, local governments and Tribes can access to implement strategies that reduce energy use and fossil fuel emissions, and improve energy efficiency. Funds can be used for projects such as developing zero emissions building codes, developing clean energy strategy plans, creating bike lanes, or funding community solar campaigns. More information on the EECBG can be found [here](#).

DOE also launched the Clean Energy to Communities programs with \$50 million to facilitate relationships between local governments and utilities with experts at national labs, the Buildings Upgrade Prize (Building UP) with \$22 million to accelerate energy efficiency and building electrification technology and adoption, and the Energizing Rural Communities Prize with \$15 million to develop partnerships and financing systems between organizations and rural or remote communities to improve energy systems and demonstrate clean energy projects. More information on DOE clean energy infrastructure programs and funding opportunities can be found [here](#).



ASHRAE Announces 9th Building Modeling Competition Re-Envisioning the HOUSTON ASTRODOME!

Sign up NOW for the 2023 ASHRAE LowDown Showdown (LDSd), a highlight of ASHRAE's annual Building Performance Analysis Conference taking place in Austin Texas on September 11 – 13, 2023.

Unleash your design and modeling skills, collaborate with project team members and showcase your innovative building design to conference attendees!

ASHRAE News

2023 AHR Expo Product Guide



FastDUCT Mechanical Estimating Software

Are you looking for ways to improve your bottom line? FastDUCT® and FastPIPE® Mechanical Estimating Software can help you bid more efficiently! Our easy-to-learn software features on-screen takeoff and a large material library, making estimating quick, accurate and easy. [Read more](#)

FastEST, Inc.: Booth B4638



Smatrix Pulse Wireless Controller

Introducing the newest dimension of smart home technology that offers wireless control of both radiant and air-side heating and cooling for multiple zones throughout a home. Now, homeowners can enjoy precise comfort with one solution that connects to a smart home assistant and can also be controlled remotely via an app. Learn more at Booth B2953 or uponor.com/smatrixpulsecontrol.

Uponor: Booth B2953



Immerse Yourself in Daikin Innovation

Visit Daikin booth B3338 for engaging experiences that capture our innovative HVAC technology and equipment via interactive touch-screen modules and virtual/augmented reality (VR/AR) experiences. At your pace, take deeper dives into Rebel Applied™ and Rebel® rooftops, Magnitude® WMT magnetic bearing chillers, Vision® and PreciseLine® air handlers, WSHPs and air-to-water heat pumps. [Read more](#)

Daikin: Booth B3338



Bell & Gossett is Building Better

From new products to smart enhancements to existing product lines, discover how Bell & Gossett is building a better future through innovative, energy-efficient system solutions. Find us at Booth B3889 to learn more! [Read more](#)

Bell & Gossett: Booth B3889