



ISSUE VIII | 2020

# DAYTON CHAPTER

## CURRENT OFFICERS

### **PRESIDENT**

**Brian Turner**

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ElitAire

### **PRESIDENT-ELECT**

**Matt Dill**

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Victaulic

### **TREASURER**

**Jennifer Eller**

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### **SECRETARY**

**Trent Hayden**

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### **Carl Schultz**

Regional Vice Chair, Region V (2018-2020)  
Chapter Technology Transfer Committee

### **2020 Region V Technology Award Winners**

We are pleased to announce the results of the Region V ASHRAE 2020 Technology Awards competition. These awards recognize outstanding design innovations and successful achievements by members and their companies in Region V.

The ASHRAE Technology Award Judging Criteria includes energy efficiency, indoor air quality and thermal comfort, innovation, operation and maintenance, cost effectiveness, environmental impact, and quality of presentation. Award recipients have demonstrated the best overall compliance with the judging criteria.

**The first-place Regional winners are qualified to compete at the Society level – the highest level of competition for the technology awards. The deadline to submit the Society Entry in Long Form format to the incoming RVC CTTC, Arunabha Sau, is Friday August 21, 2020.** Upon receipt, they will review, approve and forward the submission to ASHRAE Society by September 1, 2019. Submission files in PDF format, through email are acceptable. Please submit your final entry to Arunabha Sau at [runabha@gmail.com](mailto:runabha@gmail.com).

#### 2020 ASHRAE Region V Technology Award Results

##### **Educational Facilities – New**

*First Place:* University of Michigan Stephen M. Ross Athletic Campus

By: David A. Conrad, ASHRAE Member  
Detroit Chapter

##### **Educational Facilities – Existing**

*First Place:* Historic Mercy High School Renovations

By: Brian Rose, ASHRAE Member  
Cincinnati Chapter

*Second Place:* Manchester University Academic Center

By: Thomas H. Durkin, PE, ASHRAE Member  
Central Indiana Chapter

# FROM THE PRESIDENT

As we move into August, we are preparing to attend the Chapter's Regional Conference. This year's conference will be held virtually over a four day period throughout August. For those interested in being involved at the regional level, please reach out to a member of the Board of Governors.

Due to the pandemic, our meetings will look different for the remainder of the year. The Dayton Green Expo has been canceled for the year. In place of the Green Expo, we are considering adding a YEA sponsored event in September. Stay tuned for details.

Our monthly meetings will be held virtually beginning in October. Also, don't forget to sign up for the Dayton ASHRAE golf outing at Pipestone Golf Course on October 2<sup>nd</sup>. We hope to see you there.

Stay safe, stay cool, and enjoy the rest of the summer.

*Brian Turner* - President, Dayton ASHRAE

## Upcoming Events

**August 19th**

**Board of Governors**  
8:00 AM, Virtual Meeting

**Sept. 16th**

**Board of Governors**  
8:00 AM, Virtual Meeting



**October 2nd**  
**Golf Outing**

8:30 AM, PipeStone

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

## CHAPTER HISTORY

### **IN HONOR OF 70 GREAT YEARS.....(continued)**

As the newly joined ASHRAE started the 1960s the meetings were held at the Engineers Club of Dayton. There were no local dues charged, as there was a concern that dues would decrease the attendance and the Engineers Club required a minimum of 50 dinners for each meeting. To help cover chapter expenses, Glen Black of Johnson Services ran a very good liquor bar with very reasonable prices, but high enough to make a little money to help operate the Chapter. In addition they held a monthly raffle, sponsored by Jack Holman of Allied Supply and generated additional funds to help operate the Chapter.

Throughout the 1960s the various Dayton ASHRAE Chapter Presidents worked for a variety of companies beginning in 1960/61 with Tom Lutz from Chrysler Airtemp, Frank Doench a partner with Helmig, Leienesch, Doench & Associates, Jerry Ely with Airtemp, and Jim Parker (company unknown) in 1963/64. Tom Monnig (a current chapter member) with Schweigher & Heapy was Chapter president in 1964/65, which also included finishing most of Jim Parker's year as president when Jim changed jobs and left Dayton. During the period Dayton hosted their first Chapter Regional Conference (CRC) at the Dayton Engineers Club. To round out the decade the remaining presidents were Cecil York with Hughes Bechtol in 1965/66, John "Bob" Patterson (a current chapter member) with the local Trane Office, Gifford Solem with the Dayton Johnson Service Company, Norm Pleimann with Hughes Bechtol, followed in 1969/70 by Tom Ferdelman with James Ahart and Associates. In the 1968/69 Chapter year meetings changed from the Engineers Club to the Carillon Cafeteria. One of the initiatives started under Tom Ferdelman (a current chapter member) in 1969/70 was the first Chapter Roster which included the names of the 139 local ASHRAE members, the current officers, and the past presidents.



## Committee Chairs

### **MEMBERSHIP**

**Jeremy Fauber**

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### **HISTORY**

**Bryan Schenck**

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### **COMMUNICATIONS**

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### **GOVERNMENT AFFAIRS**

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**YEA (Chair)**

**Phillip Reid**

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## Board of Governors

**Jeremy Fauber**

Heapy

**Rick Pavlak**

Heapy

**Larraine Kapka**

Sinclair College

# MEMBERSHIP

## **New Members**

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



**July**

**Keith Strayer  
David Zelinski**

## **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!

**Check back next month for membership Anniversaries**

## **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 Jeremy Fauber at [jpfauber@heapy.com](mailto:jpfauber@heapy.com). Or by calling 937-224-0861

## **Membership Application Here**

# ASHRAE RP

## WE MADE IT !!

Thanks for all of your help and support over the past RP Campaign Year. The ASHRAE Fiscal Year ended on June 30. We achieved our goal despite the COVID 19 Pandemic, which again tell us what a great group ASHRAE has supporting its research efforts!!

We are now in a NEW Campaign Year. Our goal has not yet been established but we know, given our history, we will blow the lid off again!!

**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. But if you want to keep your “Coin Collection” going and be “Published,” the NEW MINIMUM is \$150.

2021 Goal =	\$ Not established Yet
YTD =	\$ 300.00
To go =	\$ N/A

### Partner Level

Your Company Here

### Honor Roll

Your Name Here

### Honorable Mention

Your Name /Company Here

### Silver Level

Your Company Here

### Bronze Level

Your Company Here

*Let's try and.....*



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 EVENT

## ANNUAL ASHRAE GOLF OUTING

Friday,  
October 2, 2020  
At *Pipestone*

Tickets include:  
Green fees, boxed  
lunch and two  
drink tickets.

Golf Course  
4344 Benner Road,  
Miamisburg  
Registration at 8AM  
Shotgun start at 9AM

Tickets for  
Mulligans will be  
available for  
purchase.



Click on the  
ASHRAE golf  
ball to sign up  
for Single, Foursome or  
to Sponsor a hole!

# ASHRAE News

## **ASHRAE Informs the U.S. Department of Education about its Updated Technical Guidance**

On July 21<sup>st</sup>, ASHRAE sent a letter to the U.S. Secretary of Education Betsy DeVos with information from ASHRAE's Epidemic Task Force (ETF) concerning the reopening of schools and universities. The ETF updated its guidance on July 17<sup>th</sup> and wanted to make sure the Department of Education was aware of the update, and requested the information be distributed to state and local school departments and districts. The U.S. Centers for Disease Control and Prevention (CDC) had issued [guidance for schools](#), but ASHRAE's guidance provides more detailed information, specifically relating to school buildings and their HVAC systems, including recommendations on filtration upgrades, HVAC system checks, design for nurses' offices and air cleaning.

Click [here](#) to read letter. More information on ASHRAE's guidance for schools and universities can be found [here](#).

## **New U.N. Cooling Emissions Report Shows Importance of Efficient Cooling Equipment**

The Cooling Emissions and Policy Synthesis Report, issued on July 17<sup>th</sup> by the United Nations Environment Programme (UNEP) and the International Energy Agency (IEA), shows that more energy-efficient, climate-friendly cooling equipment could avoid up to 460 billion tons of greenhouse gas emissions over the next four decades. This is roughly equivalent to 8 years of total global emissions (based on 2018 levels). These reductions in carbon dioxide can be achieved by actions to improve the cooling industry's energy efficiency, along with transitioning to climate-friendly refrigerants. Countries that are signatories to the Kigali Amendment to the Montreal Protocol regarding HFCs can integrate the actions described in this report into their implementation of the Amendment. The full UNEP/IEA report can be found [here](#).

## **White House Issues Final Rule for National Environmental Policy Act (NEPA)**

The White House's Council on Environmental Quality (CEQ) has issued its final rule updating regulations for Federal agencies to implement the National Environmental Policy Act (NEPA), which requires them to conduct environmental assessments for projects. Changes include:

- A time limit of one year for environmental assessments (EA) and two years for environmental impact statements (EIS).
- Elimination of the requirement to consider "cumulative effects" and removing any reference to "indirect effects."

75-page limit for EAs and a presumptive 150-page limit for EISs.

The rule proposal received over a million comments when it was issued earlier this year and is likely to face legal challenges. [Click here](#) to read the NEPA Factsheet and [click here](#) to read the Final Rule that will go in effect on September 14, 2020.

# ASHRAE News

## ASHRAE Signs Letter Regarding a COVID-19 Relief Package and the Energy Efficiency Sector

On July 16<sup>th</sup>, ASHRAE and 12 other organizations sent a [letter](#) to U.S. Congressional leadership that addresses the COVID-19 pandemic and its economic implications for the energy efficiency industry. An analysis of U.S. Bureau of Labor Statistics data shows that 360,000 energy efficiency workers have lost their jobs since March as a direct result of the virus. The letter asks Congress to consider the following in any future COVID relief or recovery package:

- A significant increase in investments for weatherization assistance.
- Improvements to indoor environments at critical public facilities (particularly in schools struggling to reopen but also public hospitals, community shelters, federal or military facilities).
- Modernized tax incentives and/or rebates encouraging efficiency upgrades in homes and buildings.

Increased investments in the State Energy Program and grant funding to local communities to support efficiency projects, including for small businesses.

To read the full letter, [click here](#).

## NREL Machine Learning System May Enhance Climate Data Resolution

Researchers at NREL have created a new machine learning technique that can rapidly improve the resolution of wind velocity data by 50 times and solar irradiance data by 25 times. The researchers' alternative approach provides high-resolution climate data at a much faster rate. With this novel approach, scientists can produce renewable energy studies for future climate scenarios quicker and with a higher level of accuracy, which could positively impact energy planning. [Click here](#) to read more.


## South Carolina's School Guidance Includes ASHRAE Building Readiness Document

The state of South Carolina has established an AcceleratED Task Force to provide guidance and recommendations regarding COVID-19 to school officials and school employees for the 2020-2021 school year. The draft guidance, issued in late June, includes the entire 110-page Building Readiness document developed by ASHRAE's Epidemic Task Force in May. Various sections of the state's guidance are focused on Summer Planning and Preparation, Pre-Opening, and Re-opening and Continuity of Operations, and each of these aspects is addressed in ASHRAE's Building Readiness recommendations. The full AcceleratED Task Force draft guidance can be found [here](#).

### COVID-19 Mitigation

#### ASHRAE Epidemic Task Force Releases Updated Reopening Guide for Schools, Universities

As schools prepare to reopen for the fall academic year, the ASHRAE Epidemic Task Force has developed HVAC systems operation guidance to help mitigate the airborne transmission of SARS-CoV-2. The guidance includes checklists such as starting up HVAC systems prior to occupancy and checks and verifications to maintain during the academic year. The guidance addresses determining building readiness, filtration upgrades, facility design recommendations and controlling infection outbreak in school facilities.

[Download the guidance.](#) [Read more](#) 



# ASHRAE News

## ASHRAE News

### Call for Abstracts Announced for 2021 ASHRAE Annual Conference

Abstracts are now being accepted for the 2021 ASHRAE Annual Conference taking place June 26-30, 2021 in Phoenix. The conference includes a technical program comprised of eight tracks, focusing on subjects such as: the development, improvement and application of new HVAC&R systems and equipment; the design, control and operation of critical environments such as those in healthcare, cleanrooms, data centers, laboratories, isolation rooms, and pharmacies; and humidity control, outdoor cooling, passive cooling. The deadline for abstract submissions is August 12. [Read more](#)



### Energy Standard for Data Centers

There's one data center for every 100 people in the United States and thousands of facilities worldwide. Standard 90.4-2019 offers a framework for the energy-efficient design of data centers with special consideration to their unique load requirements compared to other buildings. [Click here for more information.](#)

### Guidance to Help Reduce the Risk of Legionellosis

Standard 188-2018 establishes minimum legionellosis risk management requirements for building water systems, clarifies compliance requirements, and is updated throughout with enforceable language to facilitate adoption of the standard for code and regulatory purposes. [Click here for more information.](#)

**TUESDAY,  
AUG. 18TH  
2PM ET**

### Benefits of Integrated Controls for VRF



**FREE WEBINAR**



## ASHRAE Journal

### Feature of the Week

### Ventilation and Transport: Bioaerosols in Health-Care Environments

*By Kevin Grosskopf, Ph.D., Member ASHRAE; Ehsan Mousavi, Ph.D., Associate Member ASHRAE*

Hospital acquired infections (HAIs) claim more than 90,000 lives and cost more than \$28 to \$45 billion each year. This 2014 article discusses a series of tests conducted in an actual hospital to observe containment and removal of synthetic respiratory aerosols with respect to directional airflow and air change rate within a general patient room, an airborne infection isolation room and patient corridor.

[Download here](#)



# JUST FOR FUN

Crosswords can be fun!

Remember when you went school supply shopping as a kid?



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STUDENT  
TEACHER  
WRITING

