



ISSUE IV | 2021

# DAYTON CHAPTER

## CURRENT OFFICERS

### PRESIDENT

**Brian Turner**

BTurner@elitaircom  
ElitAire

### PRESIDENT-ELECT

**Matt Dill**

Matthew.dill@victaulic.com  
Victaulic

### TREASURER

**Jennifer Eller**

jmeller@heapy.com  
Heapy

### SECRETARY

**Trent Hayden**

thayden@energyoptusa.com  
Energy Optimizers, USA

## Find Us on



&



## Us on Facebook



**Main Presentation: Productive from Anywhere:  
Practical tips to get stuff done**

**Presenter: Pam Duffy,**  
PE, Owner of Spark One Solutions

## April 12th Meeting

In this presentation, attendees will learn about easy-to-implement tips and tricks to boost productivity. Plus, learn best practices for staying focused in any kind of workplace: in the office, working from home, or on the road.

Pam Duffy, P.E. is the Owner of Spark One Solutions. She works as a marketing, education, and business consultant for HVAC businesses. She has a mechanical engineering degree from the University of Central Florida where she first joined ASHRAE as a student member. She has over 10 years of experience in the HVAC industry with roles in mechanical design, application support, technical training, product development, and product marketing.

In ASHRAE, Pam currently serves as Chair of the Society Communications Committee and is Vice-Chair of T.C. 1.7. She also serves as Region VIII's Vice-Chair of Student Activities. In 2019, Pam was honored with ASHRAE's Distinguished Service Award. She was named a Distinguished Lecturer in 2017. Outside of ASHRAE, Pam is a Life Member of the Society of Women Engineers (SWE), has been named to the Consulting-Specifying Engineer's 40 under 40 list, and serves on the AHR Expo Industry Council.

**Social Hour: 11:30 AM to 11:45 AM**

**Chapter Business/Instructions: 11:45 AM—Noon**

**Main Presentation: Noon (Virtual Meeting, see below)**

Join Zoom Meeting

[https://us02web.zoom.us/j/86499940401?](https://us02web.zoom.us/j/86499940401?pwd=cS9nbmV2NXgvdkpQYUZuSkM0QzVgQT09)

[pwd=cS9nbmV2NXgvdkpQYUZuSkM0QzVgQT09](https://us02web.zoom.us/j/86499940401?pwd=cS9nbmV2NXgvdkpQYUZuSkM0QzVgQT09)

Meeting ID: 864 9994 0401

Passcode: 135432

One tap mobile

+13017158592,,86499940401#,,,,\*135432# US (Washington D.C)

+13126266799,,86499940401#,,,,\*135432# US (Chicago)

**\*\*Please login/display your first and last name when joining the meeting to help with attendance and sending out PDH certificates.**

# FROM THE PRESIDENT

Thanks to everyone who joined us for our March Chapter Meeting. In March we hosted Christian Taber from Big Ass Fans. Christian presented on Thermal Comfort and Air Movement with HVLS Fans. We learned how HVLS fans can contribute to thermal comfort, energy savings and LEED v4.1.

For over a year now, we've all been learning how to work in virtual world. Join us on April 12<sup>th</sup>, as Pam Duffy will present Productive from Anywhere: Practical Tips to Get Stuff Done. Pam's presentation will provide easy to implement tips and tricks to boost productivity in any kind of workplace.

Temperatures are rising; time to get the foursomes together for the annual ASHRAE Golf Outing. Go to [Daytonashraegolf2021.eventbrite.com](https://www.eventbrite.com/event/dayton-ashrae-golf-outing-2021) to register for the golf outing on May 28<sup>th</sup>. We look forward to seeing everyone there.

*Brian Turner* - President, Dayton ASHRAE

## CHAPTER HISTORY (1995-1996)

### Upcoming Events

**April 12th**

**ASHRAE Chapter Mtg.**  
11:30 AM, Virtual Meeting

**April 21st**

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

**May 19th**

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

**May 28th**

**ASHRAE Golf Outing**  
9:00 AM, Virtual Meeting

**June 16th**

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

[See Additional](#)

[Events & Volunteer](#)

[Opportunities Here](#)

<b>President:</b>	<b>John Mosgo</b>	<b>Siebe Barber Colman</b>
<b>President Elect:</b>	Dennis Lewis	EG&G Mound Applied Tech
<b>Vice President:</b>	Dave Deger	Air Control Equipment
<b>Secretary:</b>	Dave Patterson	Patterson Equipment Co.
<b>Treasurer:</b>	Jim Hocker	Stan & Associates
<b>Historian.:</b>	Phil Van Styn	Heapy Engineering
<b>Student Activity:</b>	Russ Marcks	Sinclair Community Col.
<b>RP:</b>	Mark Steiner	Barge, Waggoner, Summer, Cannon
<b>Membership:</b>	Joe Ferdelman	Heapy Engineering
<b>Newsletter:</b>	John Mosgo	Siebe Barber Colman

Meetings were held at the Dayton Engineers Club.  
CRC held in Grand Rapids Michigan.  
Tour: DP&L Hutchings Power Station

## Committee Chairs

### **MEMBERSHIP**

**Jeremy Fauber**

JPFauber@heapy.com  
Heapy

### **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

**Jeremy Fauber**

Heapy

**Rick Pavlak**

Heapy

**Lorraine 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!**

### March

**CHECK BACK NEXT MONTH FOR ANY NEW MEMBERS.**

**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!

### 5 Years

Lee Westgerdes  
Michael Witt

### 10 Years

Brian Hughes



### 35 Years

Andrew Tepe



## **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

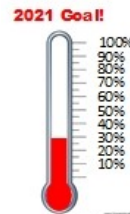
**Membership Application Here**

# ASHRAE RP

As we exit March Madness and the month of giving, we want to give special thanks to those who responded to the Notice mailed out mid-month about donating part of your stimulus check to ASHRAE Research!! We are now at 38% of our annual Goal for the 2020-21 ASHRAE Fiscal Year which ends on June 30. If your stimulus check left you with a little extra cash please consider donating some of it to Research Promotion and Scholarships!

**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 = \$ 19,680**  
**YTD = \$ 6,350**  
**To go = \$ 13,330**



## Partner Level

Emerson Climate Tech.



## Silver Level

Dayton ASHRAE Chapter  
Waibel Energy

## Honor Roll

Larraine Kapka  
Steve Meier  
Tom Mastbaum  
Evan Nutt  
Trent Hayden  
Nathan Lammers  
Brian Shenck  
Brian Turner  
Kyle Schroeder  
Jennifer Eller  
Sam Tobias  
Sheila Sagerer  
David Crosley

## Bronze Level

Uptime Solutions, Inc.

## Honorable Mention

Joseph Ferdelman  
Jeff Turner  
Jeremy Fauber  
Thomas Monnig  
Mike Weisman  
Matt Dill  
Helmig & Lienesch



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

## 2021 Annual ASHRAE Golf Outing!!

Click on the ASHRAE logo below for more information and to sign up as a single, Foursome or to Sponsor a hole.

Friday, May 28th

At *Pipestone*

Golf Course

4344 Benner Road, Miamisburg



**Connect Yourself: Stay Up-to-Date Easily!**



Download **ASHRAE 365** the free app from ASHRAE providing year-round updates on all things ASHRAE. Technical information, events, access to continuing education and the publications you need – all at your fingertips with ASHRAE 365.

**Download Now**

## Senate Confirms New EPA Administrator

Michael Ragan was confirmed by the Senate to be the next Environmental Protection Agency's (EPA) Administrator. Regan is the first black man to serve in the position. Also confirmed was Rep. Marcia Fudge (D-Ohio) to head the Department of Housing and Urban Development and federal Judge Merrick Garland to be Attorney General. All three nominees were confirmed with bipartisan support.

## Oregon Plans to Adopt ASHRAE Standard 90.1-2019

A proposed rule from the State of Oregon's Building Codes Division would adopt updated commercial energy provisions for Chapter 13 of the Oregon Structural Specialty Code (OSSC). The energy provisions will be based on the 2019 edition of ASHRAE Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, and will also include Oregon-specific amendments. More information and the full text of the proposed rule can be [found here](#).

## State Department Prepares Package to Ratify Kigali Amendment

Last Friday, the State Department sent the White House a "transmittal package" it can send to the Senate in order to ratify the Kigali Amendment, the 2016 addition to the Montreal Protocol that requires a phase-down of the potent climate warming hydrofluorocarbons. The White House has not yet commented if they plan to send it to the Senate. Ratification requires 67 votes, so at least 17 Republicans will be needed if all Democrats back it. Ratification already has bipartisan support as 13 Senate Republicans in 2018 called on Donald Trump to send them the Kigali Amendment for ratification.

Meanwhile, EPA sent its proposed phase-down of HFCs (Reg. 2060-AV17) to the Office of Management and Budget (OMB) for review. The rule is required by the American Innovation and Manufacturing (AIM) Act which passed last December. The law requires the EPA to craft rules to phasedown HFCs by 85% over 15 years. ASHRAE [supported this legislation](#) and it was included in ASHRAE's [Public Policy Priorities](#) for Society Year 2020-2021.

## DOE Announces Goal to Cut Solar Costs by More than Half by 2030

The U.S. Department of Energy (DOE) announced that it aims to use nearly \$128 million to make solar energy more affordable by supporting technology that would cut costs by 60% within the decade. These investments support the Biden-Harris Administration's climate goals of providing a path for affordable decarbonization of the energy system. [Click here](#) to read more.

## Addressing HVAC System Vulnerabilities to Reopen Universities

The COVID-19 pandemic has exposed vulnerabilities in the design, construction, installation, operation, and maintenance of HVAC systems installed in many building types. To help resolve these challenges, Epidemic Task Force Members Wade Conlan, P.E., Member ASHRAE, and Corey Metzger, P.E., Member ASHRAE, are teaching a [new online course](#) that will address typical issues when reopening universities. [Read more](#)

## [World Refrigeration Day: Meeting Today's Challenges](#)

This year's World Refrigeration Day (June 26) will focus on inspiring students and young professionals to explore the challenges of creating controlled environments. [Read more](#)

## **Funding Opportunity: Apply Today to Create Small Commercial Building Assessment Centers**

The Department of Energy's [Building Technologies Office](#) (BTO), in collaboration with the [Advanced Manufacturing Office](#) (AMO), has announced a funding opportunity for "new small commercial building assessment centers (sCACs) to create a pipeline of skilled jobs providing energy efficiency upgrades in small U.S. commercial buildings." Potential applicants should view the complete funding opportunity. To see the eligibility requirement and view a recording of a [recent informational webinar](#) on IAC operations, [click here](#). Optional Letters of Intent are due April 1, 2021 at 5:00 p.m. ET and the full applications are due on April 22, 2021 at 5:00 p.m. ET.

## **New Report Available on Net Zero Carbon Cities**

The World Economic Forum's Net Zero Carbon Cities Program has issued a new white paper regarding a global framework and integrated energy approach, defined as "systemic efficiency," as a solution to the climate crisis. Systemic efficiency encompasses clean electrification, smart digital technology, and efficient buildings and infrastructure, along with a circular economy approach to water, waste and materials. Cities currently cover 3% of the earth's land surface but create more than 70% of all carbon emissions. The full report can be [found here](#).

## **New Coalition Focuses on Developing Zero-Carbon Technology**

A coalition of electric utility and environmental organizations launched a new initiative earlier this month aimed at boosting federal research and development efforts for new zero-carbon technology. The Carbon-Free Technology Initiative includes the Edison Electric Institute, the Clean Air Task Force, the Bipartisan Policy Center, the Center for Climate and Energy Solutions, and others. Its goals include advancing nuclear technology, solar and wind energy systems, long-duration energy storage, geothermal energy, carbon capture, and other initiatives that are currently in very early stages of development. More on the Carbon-Free Technology Initiative can be [found here](#).

## **Engineer's Notebook: Weather Data Analysis**

*By Daniel H. Nall, P.E., BEMP, HBDP, Fellow/Life Member ASHRAE*

Climate analyses are a common component of the pre-design phase of most projects that aspire to energy efficiency goals. This column from June 2019 explores ways that initial climate data analysis can provide useful information for the development of both the architectural and mechanical systems of a building. [Download here](#)

## EPA and NASEM Hold Workshop Series on Indoor Exposure to Fine Particulate Matter and Practical Mitigation Approaches

The National Academies of Sciences, Engineering, and Medicine (NASEM) will be holding a virtual workshop on *Indoor Exposure to Fine Particulate Matter and Practical Mitigation Approaches* on April 14, 21, and 28, from 11:00 a.m. to 3:00 p.m. EDT. The workshop is sponsored by the U.S. Environmental Protection Agency (EPA). Three webinars will be held on a different topic and questions from the audience will be answered.

- April 14: *Sources of Indoor Exposure to Fine Particulate Matter* [Register Here](#)
- April 21: *Indoor Exposure to Fine Particulate Matter Health, Metrics and Assessment* [Register Here](#)
- April 28: *Mitigation of Indoor Exposure to Fine Particulate Matter* [Register Here](#)

For more information, [click here](#).



**ASHRAE**  
GLOBAL TRAINING CENTER  
DUBAI

**Course Instructors**

 Dustin W. Demetriou,  
Ph.D.,  
Member ASHRAE

 Mark Seymour,  
Member ASHRAE

**Designing & Operating Data Centers for the Internet of Everything: Mitigating Risk & Optimizing Performance**  
26 May 2021

### [Virtual Online Course: Designing & Operating Data Centers for the Internet of Everything: Mitigating Risk & Optimizing Performance](#)

**Part I** – Wednesday, 26 May 2021 | 4:00 PM to 7:00 PM GST

**Part II** – Thursday, 27 May 2021 | 4:00 PM to 7:00 PM GST

**Fee:** \$284 (\$218 ASHRAE Member)

IT hardware is rapidly evolving. To achieve maximum performance while reducing energy consumption, data centers must be designed and operated by professionals whose knowledge evolves just as quickly.

Today's data center environments have an infinite number of combinations, increasing the risk of overgeneralizing by designers and operators. Demand for IT services that are lower cost, more energy-efficient, provide more storage, and offer more computing capabilities is resulting in continued, significant changes in hardware and as a result its operating conditions. This ASHRAE course examines data center best practices and focuses on ASHRAE's evolving thermal guidelines for data processing environments, telecommunications, and actual high-density data centers in operation today.



# More Education

## 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

ALL ONLINE COURSES

- ◆ **COMMERCIAL BUILDING ENERGY AUDITS** – April 6, 2021 from 1:00 - 4:00 PM EDT
- ◆ **AIR-TO-AIR ENERGY RECOVERY FUNDAMENTALS**— April 20, 2021 from 2:00pm to 4:00pm EDT
- ◆ **V IN HVAC—WHAT, WHY, WHERE, HOW, AND HOW MUCH**— April 22, 2021 from 1:00pm to 4:00pm EDT
- ◆ **HUMIDITY CONTROL 1: DESIGN TIPS AND TRAPS**— April 27, 2021 from 3:00pm to 6:00pm EST
- ◆ **AN INTRODUCTION TO ASHRAE EXISTING BUILDING COMMISSIONING PROCESS**— May 04, 2021 from 10:00am to 11:00am EDT
- ◆ **FUNDAMENTALS OF ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI) FOR AIR AND SURFACE DISINFECTION**— May 11, 2021 from 10:00am to 1:00pm EDT
- ◆ **INTRODUCTION TO BACnet®** - Thursday, 20 May 2021 | 10:00 AM to 1:00 PM EDT

## Learn from ASHRAE Experts via Live, Instructor-led Online Training

Registration opens this week for the 2021 online course series. View the scheduled courses, including CoV-2 mitigation topics, at [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses). Individual and group rates are available. Contact [edu@ashrae.org](mailto:edu@ashrae.org) to bring a live online course to your Chapter or organization.

New dates are regularly added to the online ASHRAE HVAC Design and Operations training. View the latest training schedule at [www.ashrae.org/HVACDesign](http://www.ashrae.org/HVACDesign)

View more ASHRAE courses by topic at [www.ashrae.org/ali](http://www.ashrae.org/ali).



CELEBRATING 125 YEARS