

**In this issue:**

- [November Chapter Meeting](#)
- [Bluegrass ASHRAE Golf Tournament - Thank you!](#)
- [December Tech Tour and Holiday Party](#)
- [Technical Features and News](#)
- [Follow Bluegrass ASHRAE!](#)
- [Advancing your Membership. It's Easy!](#)

Upcoming Dates:

- Chapter Meeting: November 9th
- December Tech Tour: December 14th

November Chapter Meeting

The Science Behind Climate Change and Decarbonization

When: November 9, 12-1pm

Summary: This lecture will give the basic scientific information gathered from international bodies related to the causes and effects of climate change. Information will be presented related to the impact of climate change; overall sources of CO₂eq; the goals of decarbonization from the building sector; and an introduction in to why decarbonization of buildings is important.



Presenter: Donald Colliver, Ph.D., P.E., F-ASHRAE

Donald “Don” Colliver has been involved in the energy usage and efficiency of buildings for over 40 years. He is Professor in the Biosystems Engineering Department, and formerly Director of Graduate Studies in the BAE Department and Director of the Kentucky Industrial Assessment Center at the University of Kentucky. He is a licensed Professional Engineer in the Commonwealth of Kentucky.

codes, and the analysis of climatological data for determination of design weather conditions. His team developed the first dehumidification design weather data that was published in the 1997 ASHRAE Handbook – Fundamentals.

Don has lectured in 20 countries with his teaching emphasis in solar PV systems design; indoor environmental control; industrial energy auditing; building energy modeling and analysis; decarbonization; and sustainable design.

He was the ASHRAE Society President in 2002-2003. As a result of his initiatives and leadership, ASHRAE launched the Advanced Energy Design Guides – a series of publications that provide guidance on designing and constructing buildings that lead toward net-zero-energy buildings. He served as the leader of this project for ten years during which time ten books were produced which now have over 700,000 copies distributed.

Prior to his service as ASHRAE President he served as Society President-Elect, Treasurer, Vice President, Director-at-Large, and Chair of Technology Council, Education Council and the Standards Committee. He has subsequently served as Chair of the ASHRAE Honors and Awards Committee, the National Engineers Week, and Vice Chair of the ASHRAE Foundation. He is an ASHRAE Fellow and recipient of the Andrew T. Boggs Service Award.

He served as Director of the KY Industrial Assessment Center from 2014-2021 and participated in over 80 energy assessments in industrial facilities that have resulted in implemented recommendations that save on average \$110,000 per year per plant. In November 2019 he designed and installed a ground-mounted 10.2kW solar photovoltaic system for his house which has resulted in a maximum monthly electric bill of \$19 since then.

Don was chosen to be the initial Co-Chair of the ASHRAE Task Force for Building Decarbonization and currently serves as Vice Chair.

He was awarded a doctorate from Purdue University; and is a hiker, viticulturist, and a retired soccer referee. He has been an active member of the Central Baptist Church in Lexington Kentucky for over 40 years where he has served as Deacon and Moderator. His love and pride are his wife, two sons and daughter-in-laws, and five grandchildren.

Where:

TES

680 Bizzell Drive

Lexington, KY 40510

Ticket Options (In Person Only):

Member - \$15

Non Member - \$20

[RSVP Here](#)

Bluegrass ASHRAE Golf Tournament

This year's annual golf scramble was a great success! Thanks to all volunteers, attendees, and our hosts at Houston Oaks who made this event possible. And of course, a huge thank you to our sponsors and their contributions towards ASHRAE resource promotion. We hope to see everyone next year for the 10th annual!



Bluegrass ASHRAE Technical Tour 2022

Join ASHRAE to celebrate the holiday season with a technical tour and happy hour. This year's tour features the central utility plant for the Baptist Health Hospital in Hamburg. The tour will be followed by a happy hour at Harry's in Hamburg sponsored by the Bluegrass ASHRAE Chapter.



When: December 14, @ 2:00 PM

Where: Baptist Health Hospital - Hamburg (Just past I-75 on Winchester Road)

[Click Here for More Details](#)

Technical Features and Government Affairs News

Mayor of Lexington, Kentucky Signs Proclamation Recognizing Energy Efficiency Day

On October 5th, Mayor Linda Gorton of the City of Lexington, Kentucky signed a

the Mayor's office on the proclamation. Energy Efficiency Day, which is celebrated annually worldwide on the first Wednesday in October, is a day for advocates, companies, government agencies, nonprofit organizations, and others to showcase the benefits of energy efficiency. Copies of this and other proclamations can be found under "Proclamations and Resolutions" on the ASHRAE website [here](#).

A Numerical Approach for Preventing the Dispersion of Infectious Disease in a Meeting Room

Airborne transmission of respiratory aerosols carrying infectious viruses has generated many concerns about cross-contamination risks, particularly in indoor environments. Software has been used to investigate the dispersion of the viral particles generated during a coughing event and their transport dynamics inside a safe social-distance meeting room. Computational fluid dynamics based on coupled Eulerian–Lagrangian techniques are used to explore the characteristics of the airflow field in the domain. The main objective of this study is to investigate the effects of the window opening frequency, exhaust layouts and the location of the air conditioner systems on the dispersion of the particles. [Read more](#)

October 2022 Digital Journal

In case you missed it - Understanding refrigerant emissions from air-conditioning (AC) equipment is critical for accurately estimating its global warming impacts. This month's cover article describes development of a primary data collection method to estimate average refrigerant emission rates of R-22 and R-410A in AC equipment by examining historical refrigerant used relative to the initial refrigerant charge of the AC equipment inventory.

[Click Here to Read the Journal](#)

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Connect with ASHRAE

ASHRAE represents the industry's leading HVAC&R professionals, working to make the world a better place to live.



To advance from Associate to Member, you must update your ASHRAE bio online, and notify membership@ashrae.org that you have an updated bio and wish to be considered for grade advancement.

Steps for updating your biography:

1. Log into www.ashrae.org by selecting 'Join or Login' in the upper right corner. Enter your email address and password then select 'Sign In.'
2. Hover over the 'Membership & Conferences' tab and select 'My Membership.'
3. Under 'Manage Personal Information,' select 'Change Your Address/View or Edit Your Profile.'
4. Select the 'Edu. Pro. Reg' link located in the blue font above your name. Add all of your educational history, relevant professional licenses and work history.
5. Confirm that your contact information is current by clicking on 'Contact Info.'

For information on what experience qualifies for advancement, please see Section 2.7 of the [ASHRAE Bylaws](#).

Bluegrass ASHRAE

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.

