



*The Anthracite Chapter*

**NEWS**

**September 2020**

**ASHRAE - Shaping Tomorrow's Built Environment Today**

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## President's Message

Hello ASHRAE Members and Friends! I hope everyone, and those we love, have been and remain healthy in these uncertain times. Hopefully, everyone had a chance to enjoy some time off this summer with family.

Welcome back to the 2020-2021 ASHRAE year. We are having the annual golf outing that had been postponed in June until September 15th. The outing will be at Blue Ridge Trail Golf Club and we are expecting a great turnout. As this is the day that we normally would hold our first meeting, the chapter meeting will not be held this month. We are planning to get back to our monthly meetings in October and hope to see you there. The venue and topic will be announced in the October NEWS.

The annual CRC event that was scheduled in Washington D.C. last month was canceled but will be going virtual later this month. The CRC workshops and centralized training have also gone virtual. I think that the workshops and training going virtual has allowed more committee chairs to attend who otherwise would not have been able to make the trip (even in normal times).

This year we welcome two new members to the Board of Governors: Linda Montville, treasurer and Chris Amico, secretary. I would personally like to thank Linda and Chris for stepping up and getting involved in our chapter!

I also thank the rest of the Board of Governors and committee chairpersons for their continued support.

If you have a story or photo that you would like to submit for our "Stranger Things – ASHRAE Edition" that was started last year, please send to me. All personal or identifiable aspects will be withheld.

I am honored to be your chapter president for the 2020-2021 ASHRAE year. I, along with our Board of Governors and committee chairpersons, will strive to serve you as best as we possibly can.

Thank you,

Michael Mecchi  
Anthracite ASHRAE President 2020-2021

Chapter Website: <http://anthracite.ashraechapters.org>

# ASHRAE ANTHRACITE CHAPTER MEETING

There will not be a September chapter meeting as the golf outing is on our scheduled meeting date. We look forward to seeing you at our October meeting!

## NEWS and Notes

### 2020 Mark A. Hagan, PE Memorial Annual Golf Outing

**When?** September 15<sup>th</sup>. 11:00 am shotgun start.

**Where?** Blue Ridge Trail Golf Club – 260 Country Club Drive, Mountain Top, PA 18707

### ASHRAE Winter Conference & AHR Expo

#### 2021 ASHRAE Winter Conference & AHR Expo Chicago, IL | January 23–27, 2021

The 2021 ASHRAE Winter Conference will be held in Chicago, IL! The Technical Program along with Committee meetings, Registration, the Bookstore and Speakers Lounge will be at the Palmer House Hilton.

Link to conference update from the society president:

[https://www.magnetmail.net/Actions/email\\_web\\_version.cfm?publish=newsletter&user\\_id=ASHRAE&message\\_id=19133395](https://www.magnetmail.net/Actions/email_web_version.cfm?publish=newsletter&user_id=ASHRAE&message_id=19133395)

### Technology Corner

Different techniques in imaging have been utilized in different parts of the world to evaluate how far a sneeze, a cough or just general breathing may propel aerosols. Obviously with the state of the world today this is of interest for multiple reasons, but from an indoor air quality perspective the following take-aways seem noteworthy:

1. Humans can generate high velocity particulate and aerosol emissions (even when covering their mouths)
2. With any highspeed projectile of a given mass, a momentum is present. The higher the particle mass and or velocity, the higher the momentum.
3. General breathing and talking offer a dramatically different flow profile with high sensitivity to natural convective forces within shorter distances.

From an air distribution standpoint, these imaging techniques offer a unique visualization as to how displacement ventilation systems or low induction stratified air systems can help to isolate contaminants under normal conversational and/or respiratory flow conditions (convective sensitive). More importantly, it strongly exemplifies how the building HVAC system is only one part to the IAQ puzzle. In flow regimes with high momentum contaminants, the convective forces become minimized, which

makes it more difficult for typical building air distribution to "catch" anything prior to it encountering another occupant. Good hygiene, good manners and basic common sense can go a long way in improving indoor environmental health. While there are things we can do from a building systems standpoint (high levels of filtration, proper amounts of outside air, good air distribution, ionization etc.) to reduce overall risk in terms of the transmission of contaminants, all bets are off if you just got sneezed on.

<https://www.imveurope.com/news/high-speed-camera-reveals-sneeze-aerosols-travel-7-8m>

For further reading on the Background Oriented Schlieren: BOS Imaging method, which allows us a means to visualize transparent gases, see below:

<https://www.lavision.de/en/applications/mixing-and-thermal-flows/bos-imaging-in-transparent-media/index.php>

If you have a technical article that you would like to see included in a future edition of the *NEWS*, please submit articles to CTTC Chair Ryan Wanko [c134prg@ashrae.net](mailto:c134prg@ashrae.net) for consideration.

## Membership News

### Why should I advance my membership?

As you advance in your career and expertise it is always beneficial to showcase your experience to other ASHRAE members through the status of your member grade. In addition, many technical committees and chapter offices require a certain member grade to participate in certain volunteer positions. If you are unsure about which grade you qualify for, please see the options available on the "Join" page. (<https://www.ashrae.org/membership/join#grades>)

### How do I advance from Associate to Member grade?

To advance from Associate to Member, you must update your ASHRAE bio online, and notify [membership@ashrae.org](mailto:membership@ashrae.org) that you have an updated bio and wish to be considered for grade advancement. If you are unsure about how to update your Bio online see 'How do I update my Bio' below. Once we receive the email request your Bio will be reviewed to ensure you meet the qualifications for Member Grade, and you will be contacted to confirm the status of your advancement.

### How do I update my Bio?

Log into your ASHRAE Account. (<https://www.ashrae.org/login>)

1. Choose 'My Profile' from the drop-down list under your name.
2. Select the 'Biographical Icon' located in the center of the ASHRAE Member Profile page and then add, edit, or delete bio information. What number do I call if I have any additional questions? The Member Contact Center can be reached at 800-527-4723 (US/Canada) or 404-636-8400 (International) Monday to Friday from 8 AM EST to 5 PM EST.

## Sponsor the NEWS

We are again offering the opportunity to sponsor our monthly newsletter. Sponsors will be recognized in each issue of the NEWS. The suggested donation is \$50 for the entire year. Please contact newsletter editor Michael Mecchi [c134@ashrae.net](mailto:c134@ashrae.net) if you would like to be a sponsor.

## Thank you to Our Sponsors!



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## ***ANTHRACITE CHAPTER MEETINGS & EVENTS 2020-21***

<b>Date</b>	<b>Theme</b>	<b>Program</b>	<b>Speaker</b>
Sept. 15		Golf Outing	
Oct. 20	Research Promotion/ Donor Recognition	Flow Measurement	Jon Zoppa
Nov. 17	Students/YEA	TBD	TBD
December	Family Night	No Meeting	--
Jan. 19	Research Promotion	TBD	TBD
Jan. 23-27	Winter Conference/AHR Expo	2020 ASHRAE Winter Conference & AHR Expo, Chicago, Illinois	--
Feb. 16	Engineer's Week Joint Meeting w/ PSPE	TBD	TBD
Mar. 16	Nominating Night Joint Mtg. w/ SMACNA	TBD	TBD
April 20	Students/Membership	TBD	TBD
	ASHRAE Webcast	TBD	TBD
<b>May 18</b>	<b>Past-Presidents</b>	<b>TBD</b>	<b>TBD</b>
Jun. 15	Fun & Fellowship	Mark A. Hagan, PE Memorial Golf Outing	--
	Fun & Research Promotion	TBD	--
Aug.	Chapters Regional Conf.	2020 Region III CRC	--

\*ASHRAE Distinguished Lecturer

### **ASHRAE MISSION**

- To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

### **ASHRAE VISION**

- ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

### ***The Anthracite Chapter NEWS***

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