



## May 2023 Newsletter

### President's Message:

Hello Southern Piedmont Chapter! Welcome to the May 2023 SPASHRAE Newsletter! As you read through this newsletter you will see updates from all of our chairs as to what they have planned or are planning for the year.



As our ASHRAE year is coming to an end, so is the academic year for colleges and universities. This is a time of year when many eager young minds are ready to enter the workforce and begin their careers in the HVACR industry.

If you are an employer who is looking to fill a position at your company, ASHRAE has a great resource to help you. The ASHRAE job board is a fantastic resource that offers great opportunities for employment and the most qualified candidates for hire. Engineers can set up a personal account for job searches, manage resumes and create alerts for new job postings. Employers can set up a corporate account to post new jobs, review resumes and manage recruiting.

If you are in the market for a new job or looking to hire some new faces at your company, you can access the ASHRAE Job board at [jobs.ashrae.org](https://jobs.ashrae.org)

### Chapter Officers, Board of Governors, Chair Members, RVC's and Sustaining Members

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### **Membership Promotion (MP) – Mariana Haddad**

Hello SPASHRAE Members!

Thank you to everyone who attended our Membership Promotion Event on May 11<sup>th</sup>! This was a great event to meet new individuals in the industry. I wanted to specially thank the new folks for expressing an interest in our local chapter: Mohammad Qabajeh, Lindsey Hopping, Nick Mills and Mandy Bishop.

SPASHRAE continues to be a great place to meet people in the community and we continue to grow our chapter, so I encourage you to attend our monthly events!



### **Research Promotion (RP) – Erica Powell**

Hey SPASHRAE!

Thank you all for an excellent year raising funds for Research Promotion! I'll be making the big announcement regarding how much we raised this year at our last chapter meeting in June, so make sure to attend because you won't want to miss this! I'll be passing off the baton for RP to another lucky ASHRAE member for the upcoming year but if you have any questions regarding RP, please don't hesitate to reach out.



## **Chapter Technology Transfer Committee (CTTC) Chair – Ryan Staton**

We are approaching the end of our ASHRAE year! Jun will be our last meeting until we start back up again in September.

Our June meeting topic on the R-410a Refrigerant Phase Out is the result of a member request for this topic. If you have a topic you'd like to hear more about please reach out to a board member and let us know!



The deadline for submitting a technology award is June 16<sup>th</sup>. Please get your project submissions in to be considered for the award! For complete information on the ASHRAE Technology Awards Program, please visit [www.ashrae.org/technologyawards](http://www.ashrae.org/technologyawards).

## **Student Activities Chair – Don Gariepy**

Hello from Student Activities! I hope everyone was able to stop and enjoy Mother's Day and reflect on all the awesome things she did for you. I heard my mom was so awesome she was there for me even on the day I was born!

I wanted to share a couple of big announcements for our student members and future member SA volunteers!

First, Congratulations to one of our Student Members Paulina Salinas for being selected to receive the ASHRAE Society's Lynn G. Bellenger Engineering Technology Scholarship for 23/24 academic year for \$5000.00! Special thanks to Student Branch Advisor Dr. Wang at UNC Charlotte for sharing this information.



Next, I want to announce the upcoming 11<sup>th</sup> Appalachian Energy Summit: Wednesday – Friday June 7<sup>th</sup> -9<sup>th</sup> at App State's campus in Boone, NC. Per tradition they will be hosting a poster competition. Visit Appalachian State's website for more information.

### **Appalachian Energy Summit Student Poster Competition**

College and University students are invited to submit an abstract for their energy-related research or project and be a part of the Appalachian Energy Summit June 7-9, 2023. The Energy Summit is a free event for all attendees. The highest ranking posters are eligible to earn a cash prize of \$500 each in one of four categories:

- - Undergraduate Research
  - Undergraduate Project
  - Graduate/Ph.D. Research
  - Graduate/Ph.D. Project

There will be non-cash accolades for posters earning Honorable Mention.

### Drinking Straw Pressure Drop

The kit will demonstrate the topic of pressure drop to the students by having them blow bubbles through drinking straws of varying length. In using this kit, the student will learn how pressure drop can affect the amount of energy/effort required to move a fluid through a conduit. The students will start by blowing through a single straw and should be able to easily blow bubbles. As the student tape additional straws together, it will become harder to blow bubbles through the straw.

**On-site**

- Water
- Dish soap (optional)

**Contents**

- Large cups (10)
- Bendy drinking straws (10)
- Transparent tape rolls (3)

**Instructions**

1. Each student will receive 10 straws.
2. Every 10 students will share a cup and a roll of tape.
3. Have each student try to blow bubbles in the cup of water through a single straw (make sure they don't drink the water and that they use only their straw).
4. Now, have the students tape the straws end to end until all 10 are a single straw.
5. Have them attempt to blow bubbles again through the straw.
6. If there are extra straws, try extending the length.

**Discussion**

- How hard was it to blow through a single straw?
- How hard was it to blow through the 10 straws together?
- What happens when you add bends?
- Why do you think this happens?

Explain to the students what pressure drop is and what causes it. Make the connection between the effort that they have to use to blow on the straw with the energy that a fan or pump needs to push air/water through a duct/pipe. Talk to the students about how engineers design systems to minimize pressure drop and energy. For advanced/older students introduce the affinity laws to show how pressure and energy savings are related.

ASHRAE

Learn more at [ashrae.org/studentzone](https://www.ashrae.org/studentzone)

Lastly, we SA volunteers are wanting to bring ASHRAE to your kid's school. If you would like our team to set up an SPASHRAE Science Day at your child's school and you want to volunteer with us, please send me an email and we will get it scheduled! Here is a sample of the projects provided by ASHRAE that we can do at the schools.

Thanks for reading and being active in ASHRAE!

## Government Advocacy Committee (GAC) Chair – Billy Austin Pro-Codes Act Introduced

U.S. Senators Chris Coons (D-DE) and John Cornyn (R-TX) introduced the “Protecting and Enhancing Public Access to Codes Act,” also known as the Pro Codes Act (S.385) in the U.S. Senate on March 16th. They were joined by co-sponsors Senators Thom Tillis (R-NC) and Sheldon Whitehouse (D-RI). This legislation aims to protect the copyrights of standards development organizations whose codes and standards are incorporated by reference into U.S. laws. This legislation would ensure that no matter how codes and standards are adopted, that standards development organizations such as ASHRAE retain their copyrights, thereby ensuring that codes and standards are fully accurate and freely available. “The rigorous, consensus-based standards developed by ASHRAE and other SDOs are essential to public health, sustainability, safety and security,” said 2022-23 ASHRAE President Farooq Mehboob, Fellow ASHRAE. “ASHRAE proudly supports this legislation and will continue our work to provide vital standards for adoption or incorporation by reference – another step towards realizing our vision of a healthy and sustainable built environment for all.”



## **Young Engineers Association (YEA) – Patrick Irick**

Hello SPASHRAE,

Let do, Another One! Please join us again this month at Wooden Robot for our YEA happy hour!

This will be our last happy hour before we break for the summer so bring your co-workers, your spouse, or even your dog!

We want to have everyone attend to spend an evening networking and connecting with old and new friends.

We're excited to see everyone come out!

Date: May 25<sup>th</sup>

Time: 5pm-7pm

Location: Wooden Robot Brewery: 1440 S Tryon St  
#110, Charlotte, NC 28203



**Wooden  
ROBOT  
BREWERY**

Also don't forget to follow our NEW LinkedIn Page (Southern Piedmont Chapter of ASHRAE). We look forward to connecting virtually with you all!

LinkedIn: <https://www.linkedin.com/company/southern-piedmont-chapter-of-ashrae/>

## **Chapter Historian – Chuck Curlin**

At the chapter meeting last week I was speaking to Rick Hahn (Hahn-Mason Air Systems) and learned that they are moving toward a new chapter in the company's life. If you are in this business long enough, you will see that happen time and again. There is an article on the SPASHRAE home page about the history of another great local company, Mechanical Contractors, Inc., and how it evolved from its beginnings with founder Ralph Burt to its current president and former ASHRAE Southern Piedmont Chapter president, Bill Champion.



Here is some information on Hahn-Mason Air Systems that I gleaned from their company website (I hope they don't mind):

Hahn-Mason Air Systems, Inc (HMI) started as the Robert E Mason company in 1940. Mr. Robert E Mason founded his company as a manufacturers' representative to serve industrial clients withing North and South Carolina. In the mid-1940's, air movement and control products were added to the company's product line. In 1952, a separate division was formed to handle the air-side products that had grown to approximately twelve different product lines.

In 1953, Richard Hahn, Sr joined the Robert E Mason Company and in the early 1990's, the company's name changed to Hahn-Mason Air Systems, Inc. Since that time, the company has grown tremendously from a two-man sales force. Today, Hahn-Mason Air Systems, Inc has ten regional offices located across the Carolinas and Virginia.

Rick Hahn Jr. took over the company leadership as president in the early 2000's. The company currently employs approximately 80 people and serves the two Carolinas through 9 offices.

The wheel keeps turning.

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### **2022-2023 GOLD SPONSORS**



I hope 2023 brings happiness and joy for you and your families. As always, thank you for the opportunity to serve as your Chapter President.

Sincerely,  
Benjamin M. Coy