



# Giga-Joule

May 2023

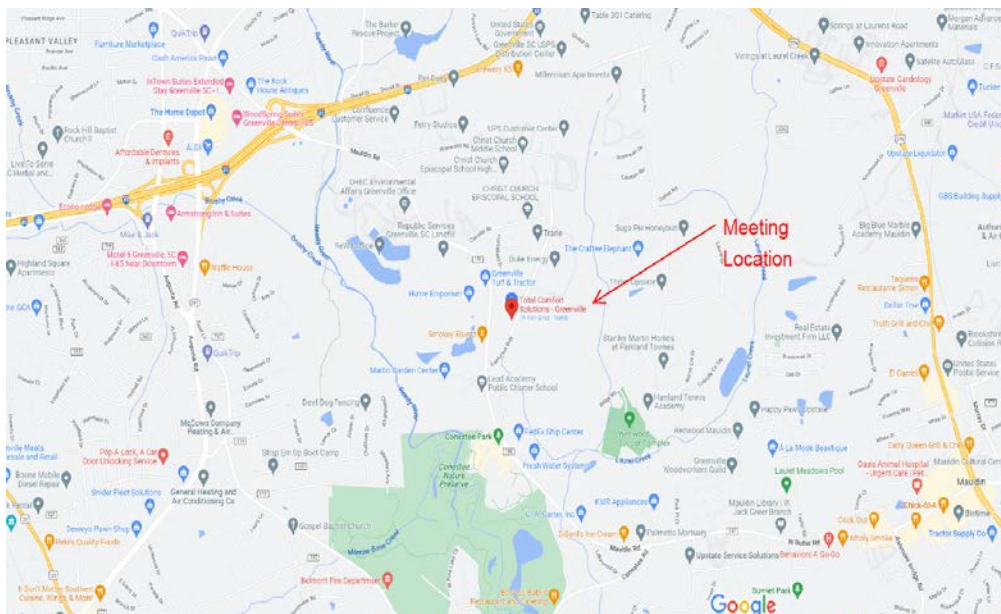
## Meeting Announcement

### Technical Presentation: Update on ASHRAE Standard 185.3 – Method of Testing In-Room Devices and Systems for Microorganism Removal or Inactivation in a Chamber

The Greenville Chapter meeting will be held on **Tuesday, May 9, 2023, at 11:50 AM**. Registration will begin at 11:30. You can register on line at [ashrae4greenville.com](http://ashrae4greenville.com).

### \*\*\*\*\* MEETING LOCATION \*\*\*\*\*

Total Comfort Solutions – 460 Fairforest Way, Greenville, SC 29607



## *A Message from the President*

Welcome to the ASHRAE FY-2022/23! Our Chapter Officers have worked hard all year to get you high quality programs and events for the year. Thank you for all your support and participation this year.

We are looking forward to closing out the year with relevant and timely content. This month we will hear from Greenville Chapter member, Jim Ridenhour. He will be giving us an update on the activities of Standards Project Committee 185. Jim is a retired engineer with extensive experience in particle control while working for Fluor Corporation.



If there is something that we as a ASHRAE Greenville Chapter Board can do to enhance our service of Chapter Members, please do not hesitate to reach out to me or another board member (see list of board contacts & areas of service on page 4). Please also know that we are always actively looking for those that would like to volunteer to serve on the board and help steer our future direction.

We hope to see you (virtually or in person) for this month's meeting!

*Bill Knight*

[bknight@greenville.k12.sc.us](mailto:bknight@greenville.k12.sc.us)

864-355-7792

## *Chapter Technology Transfer Committee Tigue Garick*



Ladies & Gentlemen,

Our chapter technology transfer committee would like to welcome you to the new year in ASHRAE. We have a great slate of programs for you this year. We will be trying Mike & Jeff's BBQ for our meals. As always, *we are looking for meeting speakers and sponsors* as well as volunteers to serve on the BOG and our many committees. Please don't hesitate to reach out to either of us with meeting ideas as well as any questions or concerns. Thank you in advance for your support of our chapter, and we look forward to seeing you next week!



# ASHRAE TECHNOLOGY AWARDS 2022/23 – CALL FOR NOMINATIONS!

The ASHRAE Greenville Chapter Technology Transfer Committee (CTTC) is now accepting nominations for Technology Awards. Have you or your organization done something sensational and deserve recognition? Start your application now to begin reaping the benefits of recognition by your peers and ASHRAE. There are six (6) different categories for entry. Details can be found at <https://www.ashrae.org/membership/honors-and-awards/technology-awards-program-overview> .

If you have any questions please contact Tigie Garick at [tigueg@jmpco.com](mailto:tigueg@jmpco.com) or (864)232-0200.

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**Need a Job? Looking for a good candidate?**

Check out the new ASHAE Job Board at <https://jobs.ashrae.org/>

The Office of State Engineer (OSE), the AHJ for State Agency Construction projects is looking for a Mechanical Engineer. Follow the link for the information:

<https://www.governmentjobs.com/careers/sc/jobs/4008076/project-manager-mechanical-engineer-60018588?keywords=project%20management&pagetype=jobOpportunitiesJobs>

Or – feel free to contact Fred Walker until June 15:



**Fred Walker, PE | Project Manager | Division of Procurement Services/Office of State Engineer  
State Fiscal Accountability Authority**

**Physical: Greenville Technical College, Benson Campus | 2522 Locust Hill Rd. | Taylors, SC 29687  
U.S. Mail: Greenville Technical College, Benson Campus | P.O. Box 5616 Mailstop 3011 | Greenville SC 29606  
Phone: (864) 250-3020, Cell: (864)293-6979 | [fwalker@mmo.sc.gov](mailto:fwalker@mmo.sc.gov)**

After that date, the best person to contact would be Margaret Jordan, PE at (803)737-0773, [mjordan@mmo.sc.gov](mailto:mjordan@mmo.sc.gov) .

## Government Affairs Update



On April 18<sup>th</sup> I attended an “ASHRAE Day On The Hill” along with Mr. Pete Conroy from the Charleston Chapter, for the purpose of introducing Representatives and Senators to ASHRAE. It was a very fun and informative day meeting policy makers that now know that ASHRAE is a resource for them whenever they are debating Healthy Buildings, Energy Efficiency and Decarbonization. The premeeting started when we began contacting representatives’ weeks before our arrival to let them know that we would like to meet and say hello. I believe success in life has a lot to do with relationships directly and indirectly. House Representative Chris Wooten, Lexington District 69, is a dear friend of mine that walked my wife down

the aisle thirty-three years ago. Chris is a product of Greenville County Schools having graduated from the great Greer High School in 1986. Chris invited me onto the house floor and introduced me to many representatives, which allowed me to hand out the attached ASHRAE flyer that is a great tool to introduce people to ASHRAE. While on the floor I met Representative Bill Herbkirkman, Beaufort District 118. Bill shared with me that he attended the AHR show in Atlanta for the first time this year. He has patented a solution to prevent condensate lines from clogging and you can find more information if you are interested at [www.always-clear.com](http://www.always-clear.com). I also met with Representative Bill Chumley Greenville/Spartanburg District 35. I have known Bill for several years as the representative for my office location near Reidville SC. Rep. Chumley patented what we know today as a drainage box for landscaping in 1998 and was interested in learning about ASHRAE as a resource for research. I also had the privilege of Meeting Senator Shane Martin, Greenville-Spartanburg-Union Counties District 13. Senator Martin is a mechanical engineering graduate of Clemson University and was also glad to know about the resources available through ASHRAE.

I started out mentioning the importance of relationships, and while meeting with Senator Martin I discovered that he is personal friends with our chapter member Shane Bulman with Crow Bulman Engineering in Spartanburg. In closing I will close with the words of 2016-2017 ASHRAE President Mr. Tim Wentz “*When you go to an ASHRAE meeting you will find the building owners we serve, the engineers we work for, the suppliers we buy from, and our competitors, all in the same room. You need to be in that room.*”

Our chapter is unique in that it serves the upstate of South Carolina and Western North Carolina. The NC chapters on ASHRAE Region IV are hosting a day on the hill in Raleigh NC on May 24,2023. I would love for someone to represent our chapter at that meeting, especially if you live in western NC and have a relationship with your representatives.

How do we shape tomorrow? “You need to be in the room”?

Thank you,  
Rodney



**Rodney Hinton and Pete Conroy with Senator Martin**




**Rodney Hinton with Chris Wooten and Bill Chumley**

## ASHRAE

### ASHRAE FACTSHEET


**MISSION:**  
To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

**VISION:**  
A healthy and sustainable built environment for all.



Updated December of 2021  
ashrae.org/about/government-affairs


#### MEMBERSHIP



MEMBERS IN  
**199 CHAPTERS**


ACROSS  
**136 COUNTRIES**

**450** STUDENT BRANCHES  
WORLDWIDE




22% US Members  
78% International Members


#### SOCIETY OVERVIEW




**50,000+**  
MEMBERS




**200+**  
STANDARDS AND  
GUIDELINES



**100+**  
TECHNICAL COMMITTEES




**200+**  
PUBLICATIONS AVAILABLE




**60+**  
YEARS OF RESEARCH  
• OVER \$80 MILLION  
IN FUNDING  
• OVER 900 RESEARCH  
PROJECTS SUPPORTED


#### PROFESSIONAL DEVELOPMENT, EDUCATION AND CERTIFICATION

**PROFESSIONAL CERTIFICATIONS**




ONLINE COURSES






INSTRUCTOR-LED  
TRAINING

**221**  
COURSE INVENTORY





SATISFIED GOVERNMENT CUSTOMERS


- U.S. ARMY CORPS OF ENGINEERS,
- GSA, U.S. MARINES, SANDIA NATIONAL LABORATORIES, AND MORE!





#### PUBLIC POLICY PRIORITIES


- 

Support Sustainable Building Practices to Mitigate Climate Change
- 

Promote Healthy Buildings and Reduce Indoor Environmental Risks
- 


Ensure the Orderly and Safe Phasedown of High-GWP HFC Refrigerants
- 

Advance Design and Construction of Resilient Buildings and Communities
- 


Strengthen and Increase Diversity in the HVACR Workforce
- 

Support Adoption of the Latest Edition of ASHRAE's Energy Standards into Building Codes


#### EXPERTISE




ENERGY EFFICIENCY



RESILIENCY



REFRIGERATION



HEALTHY BUILDINGS/IEQ

Decarbonization icon

DECARBONIZATION

To find a technical expert in your state or district please contact [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org)

#### WIDELY-USED STANDARDS

- Standard 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings
- Standard 90.2 - Energy-Efficient Design of Low-Rise Residential Buildings
- Standard 90.4 - Energy Standard for Data Centers
- Standard 188 - Legionella: Risk Management Requirements for Building Water Systems
- Standards 62.1 & 62.2 - Ventilation for Acceptable Indoor Air Quality
- International Green Construction Code (IgCC), Powered by Standard 189.1
- Standard 55 - Thermal Environmental Conditions for Human Occupancy
- Standard 15 & 34 - Safety Standard for Refrigeration Systems; Designation and Safety Classification of Refrigerants
- ANSI/ASHRAE/ASHE Standard 170 Ventilation of Health Care Facilities
- Standard 229P, Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance
- BPC 44P, Protecting Building Occupants From Smoke During Wildfire and Prescribed Burn Events

#### RESEARCH AND SCHOLARSHIPS

**\$168,771**  
RAISED FOR ASHRAE'S  
COVID-19 EFFORTS

**\$13.1M\*** TOTAL CASH  
RAISED

**\$2.3M**  
RP CAMPAIGN TOTAL  
(Research, USA, RLI, Scholarships, Grants)

**\$356,000**  
RAISED IN NEW  
SCHOLARSHIP ENDOWMENTS

**\$1.7M**  
RAISED FOR RESEARCH ONLY

**\$227,000**  
AWARDED THROUGH  
**60**  
SCHOLARSHIPS

\*Includes \$10.4M in cash raised for new global headquarters

# ASHRAE Greenville Chapter Board

Chapter President	Bill Knight
Chapter President Elect	Matthew Lewis
Chapter Vice President	Brandon Guy
Chapter Secretary	Jeremy Butdorf
Chapter Treasurer	Ryan Tonnsen
Chapter Board of Governors	Devon Cortright
Chapter Board of Governors	Karl Counts
Chapter Board of Governors	Tigue Garick
Chapter Communications Chair	Matthew Lewis
Chapter Technology Transfer Chair	Tigue Garick
Chapter Membership Promotion Chair	Brandon Dillard
Chapter Research Promotion Chair	Joe Holman
Chapter Student Activities Chair	Matt Lewis/Brandon Guy
Chapter Grassroots Government Activities Chair	Rodney Hinton
Chapter Historian	Brandon Guy
Chapter Honors and Awards	Devon D Cortright
Chapter Webmaster	Karl F Counts
YEA Chair	Matthew Lewis



## Event Dates for 2022-2023

Date	Topic	Special Emphasis	Location	Presenter
Tuesday 09/13/2022	Direct Fired Heating		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Cambridge Spencer Jerome
Tuesday 10/11/2022	SC Building Codes Update	Research Promotion	Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Delisa Clark
Tuesday 11/08/2022	VRF & Hydronic Systems Comparison	Joint Meeting / MCA	Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Xylem Kyle Delpiano
Tuesday 12/13/2022	Wind and Seismic Restraint	Membership Promotion	Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Kinetics Lee Chiddention
Tuesday 01/10/2023	TBD		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	
Tuesday 02/14/2023	SC Air Legal Update and Air Pollution Case Studies		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Gene C. McCall
Tuesday 03/14/2023	Hydronic Systems & Decarbonization	ASH-BASH	Brewery 85 Greenville, SC	Chris Edmondson
Tuesday 04/11/2023	Green Industrial Design		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Chuck Gullledge
Tuesday 05/09/2023	Std. 185.3		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	Jim Reidenhour
Tuesday 06/13/2023	Updates		Total Comfort Solutions 406 Fairforest Way, Greenville, SC	