

CURRENT BOG

<p>President: Lionel Davis Ph: 901.713.1894</p>	<p>Digital Communications: Patrick Silva Ph: 901.482.1382</p>
<p>President Elect: Ryan Mathis Ph: 630.346.1716</p>	<p>Young Engineer Activities Chair: Ashley Shipley Ph: 901-337-6831</p>
<p>Technology Transfer/Programs: Nathan Roelofs Ph: 901.283.2892</p>	<p>Student Activities: Mariel Meegan Ph: 901.384.8400</p>
<p>Membership Promotion: Amanda Kraus Casper Briggs Ph: 901.495.4599 Ph: 901.765.0013</p>	<p>K12/STEM: Stephanie Cianciola Ph: 901.345.6100</p>
<p>Treasurer: Tom Bird Ph: 901.547.2500</p>	<p>Government Affairs Chair: Mike Bilderbeck Ph: 901.734.5502</p>
<p>Research/Promotion: Robert Smith James Bellou Ph: 225-620-5088 Ph: 901.500.7693</p>	<p>Nominating Committee: Casper Briggs Ph: 901.765.0013</p>
<p>Secretary: Max Graham Ph: 901-653-9955</p>	<p>Mariel Meegan Ph: 901.384.8400</p>
<p>Refrigeration: John Hamilton Ph: 901.726.0810</p>	<p>Lionel Davis Ph: 901.713.1894</p>
<p>Honors & Awards: Jacob White Ph: 901-571-0857</p>	
<p>Historian: Evans Jack Ph: 901.324.6610</p>	
<p>Memorials: Ken Jack 901.324.6610</p>	

Meeting Location:

**The Learning Center
Lichterman Nature Center
5992 Quince (between Lynnfield and
Ridgeway, east of I-240)**

**This year’s lunches will be provided
through The BBQ Shop.**

Table of Contents:
Page Two-Five – Sponsor the Chapter/
Top Sponsors/Sponsors
Page Six – President’s Corner
Page Seven – Historian’s Note
Page Eight-Nine – Topic Info/Speaker Bio

**2022-2023 MEMPHIS ASHRAE
CALENDAR AND ANNOUNCEMENTS**

Chapter Meetings
Tuesday, September 13th – Ethics Case
Studies by Mike Bilderbeck
Tuesday, October 11th – How to Choose
the Proper VFD For Your Application by
Jackson Tiedmann
Tuesday, November 8th - TBD
Tuesday, January 17th – Diversity, Equity,
and Inclusion in STEM Fields: A Joint
Conversation with ASCE by Dr. Stephanie
Ivey
Tuesday, February 14th - TBD
Tuesday, March 14th - TBD
Tuesday, April 11th - TBD
Tuesday, May 9th - TBD

Sponsor the Memphis Chapter of ASHRAE!

Memphis ASHRAE has a great way to for members to support our ASHRAE chapter and promote their business.

We are offering 2 tiers of support:

SPONSORS:

\$500 DONATION

You get:

- Name on Sponsors slide at EVERY chapter meeting for the year
- Name in EVERY monthly newsletter
- Special recognition at every chapter meeting

TOP SPONSORS:

\$1,000 DONATION

You get:

- Full presentation slide at EVERY chapter meeting for the year
- Full slide in EVERY newsletter
- Special recognition at every chapter meeting

SPONSORS

- Company Name
- Company 2 Name
- Company 3 Name
- Company 4 Name
- Company 5 Name
- Company 6 Name



The Memphis Chapter of ASHRAE thanks you for your support!

TOP SPONSOR

Your Company Name Here

- Company Motto
- Products
- Pictures
- Logo
- Contact Information



The Memphis Chapter of ASHRAE thanks you for your support!

Contact Robert Smith (Robert.Smith@carrierenterprise.com) to support your chapter today!

- *All donations will go to the RP campaign and are TAX DEDUCTIBLE
- *Sponsorship slides will be run before and after the speaker at every chapter meeting (virtual or in-person)
- *RP chair will confirm final slide layout before presentation

TOP SPONSOR



ETAIROOS HVAC

The Best HVAC Buying & Owning Experience

901.345.6100

Memphis | Madison, MS | Little Rock



The Memphis Chapter of ASHRAE thanks you for your support!

TOP SPONSOR



Ewing Kessler is a manufacturers' rep firm specializing in engineered solutions for optimal energy-efficient HVAC design and also building automation systems.



Memphis, TN Office
1631 Century Center Pky Ste 105
Memphis, TN 38134
Tel: 901-654-2400
Sales@ewingkessler.com

The Memphis Chapter of ASHRAE thanks you for your support!

SPONSORS

- American Institute of Architects | Memphis



The Memphis Chapter of ASHRAE thanks you for your support!

President's Corner:

Late August we held our inaugural "BOG x MEP Principles Breakfast" to receive direct insights from our local engineering firms' principles. We want to keep our meeting topics relevant and provide value for those in attendance. Our Student Activities chair and committee members helped celebrate 901 (September 1st) day by presenting on ASHRAE and discussing the related potential career paths to Christian Brothers University's (CBU) ASME. We had great traction last year after presenting to this group and are hoping to replicate this success at other Universities.

We're excited to kick off the start of our monthly meetings on Tuesday, September 13th with an Ethics Case Studies interactive presentation brought to you by our very own Mike Bilderbeck, PE. The credit is mandatory for our PE's but, the great food, connections, and fellowship will make the time even sweeter. The Lichterman Nature Center accommodated us well last year and we're excited to host all our general body meetings there this year.

We have some great announcements and plenty of opportunities to become involved with the Chapter. We'll share dates/pertinent information for upcoming events and make known our intent to insert more of YOUR experiences in OUR ASHRAE Memphis community newsletter (more information to come).

Our ASHRAE society is as strong as it is today due to our global collective "voice". A "voice" comprised of varying backgrounds, experiences, ages, races, ethnicities, and industries of practice- All linked by the common thread of humanity and a desire to impact our beloved built environment.

"A life is not important except in the impact it has on other lives."
-Jackie Robinson

Sincerely,

Lionel Davis, II
President, ASHRAE Memphis 22-23

Historian's Note:

The next time you rush indoors to find relief from the summer heat, you may wish to thank a century's worth of ASHRAE members for helping to make you comfortable. As we celebrate air conditioning's 116th anniversary this year, ASHRAE historian Bernard Nagengast explains a bit of air-conditioning history.

According to Nagengast, the term air conditioning was first used in 1906 by Stuart Cramer, a textile engineer from Charlotte, N.C., in a patent application and a subsequent paper. While technology had already been developed that would lead to modern comfort cooling methods, this was the first use of the actual phrase "air conditioning."

1906 also marked the year that a patent was filed by Willis Carrier, who is commonly called the father of air conditioning, for "Method of Heating and Humidifying Air."

His intention was to regulate humidity, but Carrier's method has a fortuitous side effect—comfort cooling. "The significance of the patent is in accurately controlling humidity in conditioned air," said Nagengast. "Nowhere in the patent description or claims is there any mention of using it to cool air, but the methodology was used later for that purpose where precise humidity control was necessary."

Although it would be some years before air conditioning as we know it would become widespread, this patent marked the start of a new era of comfort cooling for buildings as new technology developed.

Excerpted from ASHRAE History

Evans Jack
Historian
ASHRAE Memphis Chapter

Chapter Meeting Topic:

Case Studies in Engineering Ethics

- ❖ Mike Bilderbeck, PE will present ethics cases that have been adjudicated by NSPE.
- ❖ We'll break into groups and discuss our opinions on resolution of the cases.
- ❖ Everyone is encouraged to participate in the discussion, as ethics are not cut and dry.
- ❖ You may have a unique opinion that others may not have thought of. We welcome your input!
- ❖ These discussions are designed for us to grow together, learn from the case studies themselves, and from each other.

Speaker Bio:



Presented by: Mike Bilderbeck, PE FASHRAE

Mike is a life-long Memphian. He graduated from Hillcrest High School, and from Memphis State with a degree in Mechanical Engineering in 1980.

He started at Pickering in 1980. He is Pickering's Chief Mechanical/Fire Protection Engineer, where he is a Principal Owner. He is registered in 23 states.

ASHRAE activities:

- Memphis Chapter President 1986-1987
- Has chaired the ASHRAE TEGA Committee, Standards Committee, and the Technical Activities Committee
- served on Society Board of Directors from 1999-2002
- served on the Board of Directors Policy Committee for Standards
- served on several Standards Appeals Panels
- is a Fellow and recipient of the Exceptional Service Award
- is a past-chair of TC1.7, "Business Practice and General Legal Education"
- currently serves Society Rules Committee

Member of the Mechanical Engineering Advisory Board at the University of Memphis

Mike and his wife of 45 years have two grown children. Alex is a mechanic. Anna Claire teaches math at Hernando MS Middle School.

Mike is also a karate instructor for Contender Ministries at First Evangelical Church.