## CURRENT BOG

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
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<tbody>
<tr>
<td>President</td>
<td>James Bellou</td>
<td>901.500.7693</td>
</tr>
<tr>
<td>President Elect</td>
<td>Lionel Davis</td>
<td>901.713.1894</td>
</tr>
<tr>
<td>Technology Transfer/Programs</td>
<td>Michael Bilderbeck</td>
<td>901.734.5502</td>
</tr>
<tr>
<td>Historical</td>
<td>Evans Jack</td>
<td>901.237.3378</td>
</tr>
<tr>
<td>Honors &amp; Awards</td>
<td>Board of Governors</td>
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<tr>
<td>Memorials</td>
<td>Ken Jack</td>
<td>901.324.6610</td>
</tr>
<tr>
<td>Membership Promotion</td>
<td>Casper Briggs</td>
<td>901.765.0013</td>
</tr>
<tr>
<td>Digital Communications</td>
<td>Patrick Silva</td>
<td>901.482.1382</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Tom Bird</td>
<td>901.345.9938</td>
</tr>
<tr>
<td>Young Engineer Activities Chair</td>
<td>Hunter Raines</td>
<td>901.384.8400</td>
</tr>
<tr>
<td>Secretary</td>
<td>Nathan Roelofs</td>
<td>901.283.2892</td>
</tr>
<tr>
<td>K12/STEM</td>
<td>Stephanie Cianciola</td>
<td>901.345.6100</td>
</tr>
<tr>
<td>Refrigeration</td>
<td>John Hamilton</td>
<td>901.726.0810</td>
</tr>
<tr>
<td>Government Affairs Chair</td>
<td>Michael Bilderbeck</td>
<td>901.734.5502</td>
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**Meeting Location:**

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

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## 2021-2022 MEMPHIS ASHRAE CALENDAR AND ANNOUNCEMENTS

### Chapter Meetings

- **Tuesday, November 9th**: Holiday Party: Time/Location TBD
- **Tuesday, January 11th**:
- **Tuesday, February 8th**:
- **Tuesday, March 8th**:
- **Tuesday, April 12th**:
- **Tuesday, May 10th**:

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**Date:** October 19, 2021
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

Contact Alan Watts (alan@pathcompany.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

CIS

Mechanical Solutions | Air Distribution | Building Automation | Supply

Contact:
Tim Saunders
(901) 500-6381
tim.saunders@cisindustries.com

The Memphis Chapter of ASHRAE thanks you for your support!
President’s Corner:

Greetings ASHRAE! I would first like to thank everyone who attended the September Meeting with Mick Schwedler, ASHRAE Society President. Despite the weather, it was great to see everyone back in action and moving forward as a Society. I would also like to thank our CTTC Chairs Mike Bilderbeck and Ryan Mathis for their efforts in making this a success first meeting. Let’s keep this momentum going into the next meeting!

We as an ASHRAE Chapter are responsible for our Chapter growth. I would like to make it our incitve to keeping striving for excellence within our chapter. I believe that we as a chapter will determine how our businesses grow in the future. I see the Memphis ASHRAE Chapter being a Leader for our peers and community. I am proud to serve you as the Memphis Chapter President and look forward to growing our chapter.

If leadership within ASHRAE sparks your interest and you would like to become more engaged within our chapter, reach out to myself or another BOG member to see how you can get plugged into a role. On a similar note, I would like to encourage those in leadership roles to encourage participation from coworkers and employees. ASHRAE should be a place for those within the HVAC industry to learn and connect with others in our industry. I am asking for your help to accomplish this and help foster healthy community within our organization.

For Fall 2021, we will continue having monthly In-Person Meetings and will abide by local ordinances to keep everyone as safe as possible.

I look forward to seeing everyone at the next meeting. Thank you for your involvement!

Sincerely,
James Bellou
ASHRAE - Memphis Chapter President
Memphis ASHRAE Chapter
October 2021 Meeting

MEETING DATE:  this Tuesday, October 19, at 11:30 AM

MEETING LOCATION:  The Learning Center
                   Lichterman Nature Center
                   5992 Quince (between Lynnfield and Ridgeway, east of I-240).

FOOD (Catered by One & Only BBQ):
- Chopped Pork
- Chopped Chicken
- BBQ Beans
- Coleslaw
- Buns
- Mild and Spicy BBQ Sauces
- Banana Puddings

Our speaker this month will be Kevin Baskette, partner with the law firm of Lewis Thomason.

Kevin primarily represents engineers and architects, but also works for general contractors/builders and vendors.

Kevin has agreed to speak for 2 consecutive sessions:

During the first 50 minutes, Kevin will speak about:
- War stories.....projects that went bad, and how they got there
- Contract evaluation
- Delegated design

At 12:45, Kevin will speak for another 50 minutes on “When a Claim Arises and How to Deal With It”

We need a head count so we will know how much food to buy.

Patrick Silva will send out a DOODLEPOLL tomorrow (to close Friday), asking about your attendance.

PLEASE Respond
Kevin Baskette is a partner in Lewis Thomason’s Memphis office. He is an experienced trial lawyer who practices in Mississippi and Tennessee in health care liability, construction and transportation law, professional malpractice and products liability defense, and personal injury litigation. Mr. Baskette has successfully tried numerous civil matters to verdict at all trial levels of Mississippi and Tennessee. He practices in the Federal and State courts of both states as well as all appellate levels of Mississippi and Tennessee.

Mr. Baskette is chair of the firm’s General Civil Litigation Practice Group. He regularly presents seminars concerning trial practice and insurance law.

AFFILIATIONS
- Mississippi Bar Association
- Tennessee Bar Association
- Memphis Bar Association
- Tennessee Association of Construction Counsel
- AIA, Memphis

PROFESSIONAL HONORS AND ACTIVITIES
- Best Lawyers® 2020 Personal Injury Litigation Law “Lawyer of the Year” in Memphis
- Named to The Best Lawyers in America®, Medical Malpractice Law – Defendants; Personal Injury Litigation – Defendants and Construction Litigation
- Fellow – Memphis Bar Foundation
- Named in Mid-South Super Lawyers
- Member – American Board of Trial Advocates
- IADC Trial Academy Graduate
- Memphis Bar Association, Young Lawyers Division, 2006 and 2007 Board member
- Leo Bearman, Sr. American Inn of Court

COMMUNITY ACTIVITIES
- Community Legal Center
- Memphis Area Legal Services
- Charter member of the Shelby County Mayor’s Young Professional Council
Did Ya Know?

We all occasionally come across something new or strange in our work......
- A regulatory or code enforcement challenge
- An unexpected difficulty
- A problem you haven’t encountered before

I want to offer this column to Chapter members. Send me your ideas/issues for future columns.

The Pressure Is On

When we design new or retrofit air handlers or packaged rooftop units, we have to overcome the external static pressure in the duct systems. Designing new equipment is less of a challenge because if the airflow of the unit needs to be increased, the ductwork can be upsized accordingly. However, when designing replacement equipment, it may be determined that the capacity of the unit needs to be increased. Increasing the capacity of the equipment will potentially also increase the required airflow, especially at higher tonnage changes. The duct system will need an evaluation to determine the required static pressure of the replacement equipment.

The first step is to assess the existing unit and its ductwork system. If we are so lucky, we will have existing drawings that appear to match the existing conditions. More often than not, however, we have either few or no drawings to describe the building and its equipment. We as designers/engineers do our best to survey what we can, but typically there are many areas of a building that are inaccessible due to a high ceiling, sheetrock enclosures, floor slabs, locked doors, etc. Where appropriate and cost effective, a third party (such as a TAB firm) can survey what we cannot see, such as equipment data, airflows, static pressure measurements, and inaccessible areas (where possible). Once we have all or most of the information from the field, the evaluation can begin.

After a cooling and heating load has been done on the space(s) that the existing unit serves, we can pick the capacity of the unit. In this case we will presume that the load suggests to increase the existing capacity significantly (like increasing from a forty-ton to a fifty-ton packaged rooftop unit). Once we have the new capacity, a unit can be selected. Packaged equipment a supply CFM range the unit can be operated between. The existing static pressure in each duct should be calculated and we should determine how much of an increase in airflow to run thru each duct. Maintaining the same amount of pressure drop in each duct, if possible, is ideal to keep the increase in static pressure in the duct system as low as possible (and avoid too much pressure in what likely is 2” SP duct). Remember, the resulting static pressure varies with the square of the flow. Minimizing the increase in static pressure also keeps the air velocity down as higher velocities create more noise that may become a nuisance to the building occupants. A packaged rooftop unit can finally be selected after the airflow and resulting static pressure have been calculated.
The entire process of surveying and replacing units is a difficult task as we are almost always lacking information necessary to design new or replacement equipment. Ductwork is one of the parts of our design we rely heavily on our third party counterparts and existing drawings to make the best design decisions we can. If we are wrong and the new/replacement unit can't run at full flow thru the ductwork, we will be the ones under pressure...

-Patrick Silva, EI
psilva@pickeringfirm.com