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**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, however this  
month we are having Italian!**

**Table of Contents:**

**Page Two-Six** – Sponsor the Chapter/  
Top Sponsors/Sponsors  
**Page Seven** – President's Corner  
**Page Eight-Nine** – Committee Updates  
**Page Ten- Eleven** – Topic Info/ Speaker  
Bio

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

**Chapter Meetings**

**Tuesday, April 11<sup>th</sup>** - 21st Century Tall  
Building Design by Luke Leung, A Joint  
Meeting with AIA

**Tuesday, May 9<sup>th</sup>** – Variable Primary  
Chilled Water Systems by Chris Norwood

**Events**

**Thursday, April 13<sup>th</sup>** – Student Activities  
Principle/Student Networking Event

**Friday, April 28<sup>th</sup>** – Golf Tournament

**Upcoming YEA Event:** Date and Location  
TBD

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Contact Robert Smith ([Robert.Smith@carrierenterprise.com](mailto: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

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The Memphis Chapter of ASHRAE thanks you for your support!



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**President's Corner:**

Happy Spring Break to those who had an opportunity to experience one and to those whose spring break proved to be even more taxing than the standard work week. Welcome back, All!

Our prayers and support are being sent to those impacted by the recent storms and tornadoes that have ravaged our surrounding areas. Our hearts are with those who have been displaced and the ongoing revitalization efforts in TN, MS, and AR.

Our last general body meeting featured Dr. Stephanie Taylor on the "Impact of the Built-Environment on the Cognitive Functioning and Worker Productivity". I hear Dr. Taylor's message was well received and we had a strong turnout. I am a staunch supporter of the non-traditional ways of viewing workplace productivity and effectiveness. Being data-enabled with our decision making and willing to accept a "different status quo" keeps us nimble enough to face both the seen and unseen challenges.

This month we're excited to host distinguished lecturer Luke Leung, in partnership with AIA, as he discusses "21<sup>st</sup> Century Tall Building Design". Luke was the lead MEP for the Burj Khalifa and is well respected throughout the built-environment and design world. Please RSVP if you plan to attend.

The 3<sup>rd</sup> Annual JRA Golf Tournament, Platinum Sponsored by Ewing Kessler, is April 28<sup>th</sup> at Timber Truss with a Noon shotgun start. Sponsorships and teams are filling up fast! If you have not done so already, please commit to supporting our chapter. Previous years have been a big hit for those who've participated, and I've been practicing my golf game =).

We're having our next YEA meeting on April 21<sup>st</sup> @ 3:30pm- More details to follow!

Next Month will be our last GB meeting prior to the Chapter's offseason (June- August), which is used for planning and enjoying the summertime. Time has flown bye but, we're excited to revamp and realign.

"If you are not where you want to be, do not quit, instead reinvent yourself and change your habits."  
– Eric Thomas

**Sincerely,**  
**Lionel Davis, II**  
**President, ASHRAE Memphis 22-23**

**Committee Updates:**

**Student Activities:           SAVE THE DATE!   April 13<sup>th</sup>, 2023**

Our Student Activities Committee plans to host a networking event at the University of Memphis to introduce the future generation of engineers to the HVAC industry. We would love to have experienced engineers, like yourselves, to network and inform these students about the different roles the HVAC industry requires.

The event will be held April 13<sup>th</sup> at the Rose Theater – South Lobby at the University of Memphis. The following page shows the flyer that has been distributed to engineering students.

Contact Reagan Toll ([reagan.toll@jci.com](mailto:reagan.toll@jci.com)), Max Graham ([mgraham@ascequip.com](mailto:mgraham@ascequip.com)), or Mariel Meegan ([mmeegan@galaengineering.com](mailto:mmeegan@galaengineering.com)) if you'd like to attend or have any questions.



Committee Updates Cont.:

Student Activities Cont.:

The poster is for an "ASHRAE + U OF M NETWORKING MIXER". It has a blue top section with white text and icons, and a green bottom section with white text and icons. The event details are: 13 APRIL, 2023, 4:30 - 6:00 PM, ROSE THEATER - SOUTH LOBBY. The text describes the event as a networking opportunity for mechanical engineering majors. At the bottom, it features the ASHRAE logo, a plus sign, and the University of Memphis logo (a tiger and the letter M). A blue banner at the bottom says "Food & Drinks Provided!" and the website "ashaememphis.org" is listed below it.

# ASHRAE + U OF M NETWORKING MIXER

13 APRIL, 2023  
4:30 - 6:00 PM  
ROSE THEATER - SOUTH LOBBY

The Memphis Chapter of the American Society of Heating, Refrigeration, and Air-Conditioning Engineers invites you to network with principals of design, rep, and contracting firms in the midsouth area. If you are a mechanical engineering major with interest in heat transfer, thermodynamics, & fluid flow; come learn more about the HVAC industry!

**ASHRAE** + **M**

**Food & Drinks Provided!**  
ashaememphis.org

**Chapter Meeting Topic: 21<sup>st</sup> Century Tall Building Design**

The locations of cities, environmental changes, ever-increasing heights of tall buildings, and focus on high-performance design will create challenges for tall building design in the 21<sup>st</sup> century. This dialogue will discuss microclimates of tall buildings. In particular, it will focus upon the impact 21<sup>st</sup> century climate and changing air contaminants have on tall buildings. Tall buildings should be designed to be resilient; researching and exploring related microclimate topics can inform our design. Topics include: the integration of tall buildings within the city to achieve optimal energy performances; the latest stack effect data, monitoring, and control; elevator door opening sequences and their impact on elevator shaft pressure; the integration of natural ventilation in tall buildings; how energy consumption changes with height; and cloud computing and advanced modeling techniques on tall building design.

**Chapter Speaker Bio:**



Speaker: Luke Leung, P.E.

Luke is a LEED (Leadership in Energy and Environmental Design) Fellow; He is also a Centennial Fellow from The Pennsylvania State University Architectural Engineering Department; Board of Directors for USGBC (United State Green Building Council), Illinois; Chairman of the ASHRAE (American Society of Heating, Refrigeration and Air Conditioning) Committee on “Tall Buildings”; Chairman of the Building Pressure Committee, Chicago Committee on High Rise Buildings; Sustainable Committee with Council on Tall Buildings and Urban Habitat; Part Time Professor at IIT; Member of the Chicago Sister Cities Program with China; MBA from University of Chicago, MS and BAE from Architectural Engineering at Penn State University.

Luke Leung is the Director of the Sustainability Engineering Studio for Skidmore, Owings and Merrill LLP. He is the incoming Chair of ASHRAE Environmental Health Committee; Team leader for ASHRAE Epidemic Task Force, Commercial Buildings; Group Leader for LCA and Embodied Carbon, ASHRAE Decarbonization Task Force; National Renewable Energy Laboratory IN2 Incubator Industry Advisor; BOMA Toronto, Health Committee Co-Chair. His work includes Burj Khalifa, the world’s current tallest man-made structure; Multiple times “Excellence in Engineering” award from the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE); Selected projects also include Pertamina Tower (Net Zero Supertall), General Motors Global Headquarters, XiongAn Net Zero Development, Beijing Finance Street, Embassy of Ottawa in Canada, Embassy in Beijing, Lakeside – 55 million sqft low energy development, a LEED Platinum building with the first large scale horizontal wind turbine in the city of Chicago; etc., and has served as a member of the editorial team for the CTBUH guide Natural Ventilation in High-Rise Office Buildings, ASHRAE “Design Guide for Tall, Supertall, Megatall Building Systems”, among other publications.