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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.**

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

Chapter Meetings
Tuesday, March 14th – The Impact of The
Built-Environment on Cognitive
Functioning and Worker Productivity by
Dr. Stephanie Taylor
Tuesday, April 11th - 21st Century Tall
Building Design by Luke Leung, A Joint
Meeting with AIA
Tuesday, May 9th – TBD

Events
Thursday, April 13th – Student Activities
Principle/Student Networking Event
Friday, April 28th – Golf Tournament

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President's Corner:

Spring is finally here and I for one am looking forward to spending more time outdoors and enjoying the weather!

Chapter members who attended this year's Winter Conference all reported that they had a blast (per usual) and the newer faces also had rave reviews. Thanks to all who attended and the Region 7 leadership for their support (see LinkedIn for photos)!

In our last general body meeting we learned about "Decarbonizing Your Water Loop with Modular Heat Recovery Chillers". Scott Thompson ran through several scenarios for deployment and various applications. We had a packed house and a handful of questions from the attendees. This and other technologies are gaining traction as we look towards more sustainable/emission friendly HVAC solutions. Our industry's willingness to embrace and articulate the "why" behind them will have a great impact toward ESG progress.

This year our chapter has taken on a great deal of initiatives surrounding education and advocacy. Last month we held the Inaugural "Engineering Palooza" with Compass Schools. It took weeks of planning, a dozen-plus volunteers, and over 120 students in attendance for the big day- all of which blended together for a great success (see LinkedIn for photos). We were invited back (later this year) and in the future. Mariel Meegan and Stephanie Cianciola are setting the ASHRAE society standard for SAC and K12 involvement and engagement.

This month we're looking forward to hearing from Dr. Stephanie Taylor on the "Impact of the Built-Environment on the Cognitive Functioning and Worker Productivity". Please RSVP if you plan to attend.

Offering two quotes (for the good weather):

"Scientists investigate that which already is; Engineers create that which has never been"
-Albert Einstein

"Engineers: They turn coffee into buildings." (Unknown)

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



MARCH NEWSLETTER
DATE: 3/14/2023

Committee Updates:

Student Activities: SAVE THE DATE! April 13th, 2023

We are excited to announce that ASHRAE Memphis will be partnering with the UofM to host our first ever Principle/ Student networking event!

Principles and hiring managers of Design/ Rep/ Construction firms interested in meeting the next generation of engineers are encouraged to attend.

Location: University of Memphis

Time: Early Evening

We are looking for:

- **Food Sponsors**
- **Volunteers to help make this event a success**
- **Feedback on attendance interest**

Details to follow at the upcoming ASHRAE Memphis chapter meeting.

Committee Updates Cont.:

Student Activities Cont.:

Thank you to all our volunteers for your help at Engineering Palooza!

For National Engineer's Week, our chapter held an engineering palooza event at Compass High School. We had 8 stations with different information and experiments for about 130 students. It was a successful event, and we hope to do it again next year!



Committee Updates Cont.:

Student Activities Cont.:



Committee Updates Cont.:

Student Activities Cont.:



Committee Updates Cont.:

Student Activities Cont.:



Committee Updates Cont.:

Student Activities Cont.:



**Chapter Meeting Topic: The Impact of The Built-Environment On
Cognitive Functioning and Worker Productivity**

Dr. Taylor will focus on the relationship between indoor air management and occupant productivity and cognitive functioning, providing sound evidence for targeted design and maintenance standards for residential, academic and commercial buildings. Maintaining optimal health and productivity for all people will decrease job absenteeism, improve student learning and alleviate the financial and human burden of psychiatric disorders and memory decline.

Chapter Speaker Bio:



Speaker: Stephanie Taylor, M.D., M. Arch

Dr. Stephanie Taylor received her MD from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research in cellular growth mechanisms.

During this time, she became increasingly concerned about patients who were harmed by new infection during their in-patient treatment. Determined to gain a better understanding of the impact of the built environment on patient well-being, she returned to school and obtained her Master's Degree in Architecture and Engineering from Norwich University in Northfield, Vermont. After working for several years in a healthcare design architecture firm, she founded Taylor Healthcare Consulting, Inc., in order to focus on designing, building and maintaining hospitals to better support patient healing. She quickly learned that many of the building and indoor air characteristics that affect people in hospitals also influenced the health of all people in buildings.

Dr. Taylor is currently working at the intersection of architectural design, indoor air management, the microbiome of the built environment and occupant health. She finds the impact of buildings on our health startling! Managing the built environment and indoor air with the goal of decreasing diseases from acute infections to chronic inflammation to cognitive impairment, is a very underutilized yet powerful approach to disease prevention. She finds that her physician insights and biological research helps her understand the science behind the interaction of buildings, human physiology and energy consumption.

Dr. Taylor has designed hospitals globally, from the United States to Papua New Guinea to Vietnam. In addition to her Taylor Healthcare Consulting work, she is a member of the Harvard Medical School Incite Health Fellowship. This program brings together multidisciplinary teams from across the US, trains them in design thinking and entrepreneurship, and gives them the tools and resources to guide the future of medical care.

To communicate her work and understanding about the fascinating convergence of human health, microbiology and architecture, Dr. Taylor writes monthly columns and bi-annual feature articles for Engineered Systems Magazine and publishes in other healthcare journals. She is an active member of ASHRAE, ASHE and national and international medical associations. When not working elsewhere, Dr. Taylor lives in beautiful Stowe, Vermont with her husband and eight dogs. One of her favorite activities is skydiving, which she finds is great practice for staying outside of her comfort zone!