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September

Sun	Mo	Tue	We	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	



Monthly Meeting

Join us **in person** at the Texas AirSystems Office or online from 12-1:30PM on September 21th as we welcome Mark Fly to discuss Vibration Fundamentals and Human Perception for our September meeting. Food will be provided as part of admission to the meeting for those attending. [Register here.](#)



YEA Happy Hour

Sponsors needed! Reach out to Tim Navarro (tim.navarro@carrier.com) to get signed up as a monthly sponsor.

President



John Neubauer

President-Elect



Catherine Tinkler

Vice President



Julie Thomet

2022-2023

HOUSTON

ASHRAE

OFFICERS

Treasurer



Nick Janssen

Secretary



Heather Camden

Past President



Josh Vanlandingham




Texas A&M University
Student Branch

Texas A&M Recognized
at ASHRAE Competition

EIGHTH ANNUAL SPORTING CLAY TOURNAMENT



Shout out to the many sponsors and volunteers that helped make the event a HUGE SUCCESS!

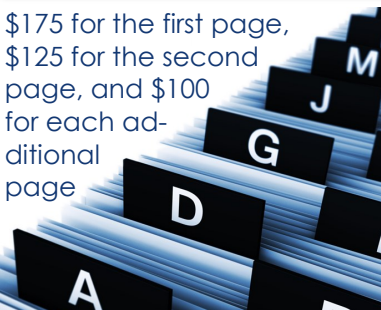
ANNUAL SPONSORSHIP OPPORTUNITIES



Click here to learn more!

2022-2023 ASHRAE DIRECTORY

\$175 for the first page, \$125 for the second page, and \$100 for each additional page



Email ctinkler@pagethink.com if interested in participating.



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MONTHLY MEETING

GET TO KNOW THE SPEAKER: MARK FLY

Mr. Fly has over 40 years of experience as a Researcher, Consulting Engineer, Contractor, and Manufacturer in the HVAC Industry. He is currently the Executive Director of the Norman Asbjornson Innovation Center at AAON, Inc. in Tulsa, Oklahoma having served as Director of Engineering of AAON for 11 years prior to taking that position.

He holds a Bachelor of Science in Engineering Physics from Missouri State University and is a Licensed Professional Engineer in two states.

In ASHRAE, Mr. Fly holds the grade of Fellow and has been honored with both the Distinguished Service and Exceptional Service Awards. He has been and is currently active on numerous Technical Committees, Standing Committees and Councils, and is currently serving on the Publishing and Education Council and as a Trustee on the ASHRAE Foundation Board.



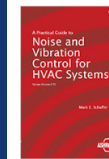
WHAT'S SHAKIN'

Vibration Fundamentals and Human Perception

Vibration science is discussed with a view toward human comfort in this presentation. Isolation theory including isolation efficiency, damping, and harmonics are explored as well as the distinction between controlling vibration for equipment life vs human comfort. This presentation will cover:

- ◆ Understand how vibration isolators work regarding isolation efficiency and damping.
- ◆ Learn how deflection and isolator frequency response are related.
- ◆ Discover how humans respond to building Vibration.
- ◆ Look at the criteria used for both human comfort and long machinery life

[CLICK HERE to read more!](#)



PRACTICAL GUIDE TO NOISE AND VIBRATION CONTROL FOR HVAC SYSTEMS, 2ND ED.

HANDBOOK / MANUAL / GUIDE by ASHRAE, 2005

M. Schaffer

[View all product details](#)

[Preview](#)

AUGUST 18TH, 2022

\$25- ADVANCED REGISTRATION

\$35- ALL NON-MEMBERS

\$0 Life Time Member/ZOOM Attendee

[CLICK HERE TO REGISTER](#)



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ANNUAL SPONSORS

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SILVER



BRONZE



ENGINEERING



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MEMBERSHIP

THINKING OF JOINING OR RENEWING? CHECK OUT THESE RESOURCES:

CONNECT-A-COLLEAGUE

We've kept it simple: Enter your name and email, your colleague's name and email, and press send. That's it! This pre-written invitation will be sent on your behalf, and includes options to reference an ASHRAE technical committee section, and to add a custom message. [Click here to get started!](#)



MEMBERSHIP BENEFITS FLYER

[Click here](#) for a flyer that includes a summary of membership benefits by grade.



STUDENT MEMBERSHIP BROCHURE

This brochure provides a description of all resources available for ASHRAE student members. This is a great brochure for recruiting new members at existing student branches or for the formation of a new student branch.



SUPPORT MY ASHRAE RENEWAL

Most employers are happy to support involvement in a professional society like ASHRAE. [Here's a sample email](#) to get your boss on board with supporting your new membership renewal.



ASHRAE

MEMBERSHIP GUIDE

[Click here](#) for an up-to-date overview of all benefits associated with joining the Society. This reference is a great tool for members and potential members. Flip through the Membership Guide.

YOUNG ENGINEERS IN ASHRAE GUIDE

This guide highlights the benefits of ASHRAE for a young professional member highlighting programs and services created specifically for ASHRAE members 35 and younger.

SUPPORT MY ASHRAE MEMBERSHIP

Most employers are happy to support involvement in a professional society like ASHRAE. [Here's a sample email](#) to get your boss on board with supporting your new membership.

APPROVED

REAPPROVED

Join or renew through <https://www.ashrae.org/join>
If you have any questions, contact membership@ashraehouston.org

TREASURER



22-23 Treasurer: Nick Janssen



Chapter is in good financial standing



Books are being transferred from Ayman Ashkar to Nick Janssen



2022 taxes filed

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RESEARCH PROMOTION



Be on the Lookout For Fall Golf Tournament Details!



Are You an Annual RP Sponsor?

Commit now and pay later. Promotional banners are being ordered at the end of September which are prominently displayed at each event and meeting.

Reach out to Julie Thomet at JulieT@MJEC.com or for additional information.

8TH ANNUAL SPORTING CLAY TOURNAMENT WAS A HUGE SUCCESS!



Shout out to the many volunteers that assisted with our event. Pictured is Rachel Haines, Heather Camden, and Kimberly Thompson. We also had Michael Langton, Nick Janssen, Mason Hall, and Garrett Neubauer helping in the background.

FIRST PLACE- PAGE
Garrett Neubauer, John Swedlow & Wayne Harner

SECOND PLACE- HTS/DAIKIN
Scott Kramer, Doug Gregory, Jeff Flukinger, & Jeremy Gregory

THIRD PLACE- TEXAS AIRSYSTEMS
Zach Harrison, Melvin Pipes, Mark Bradicich & David Tunning

BEST FLURRY- TIE!
JCI: Brooke Mabry, Chip Dudley, David Kubin & Billy Gregory
Convergentz: Kurt McCulloch, Michael Rabbitt, Adam Segovis, & Cade Skeet



Thank you to our event Sponsors!

- Flurry- TD Industries
- Raffle- A Waldrep Co
- Cigars- S&S HVAC
- Awards- Mechanical Products Texas
- Beverages & Snacks- Victaulic



ASHRAE Technology Awards

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Now is the time to consider submitting a project(s) for ASHRAE's Technology Awards this year. It starts by brainstorming what projects you have started up that would be eligible for one of the following categories:

1. Category - Check one and indicate New, Existing, or Existing Building Commissioning (EBCx)

<input type="checkbox"/> Commercial Buildings	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
Institutional Buildings:			
<input type="checkbox"/> Educational Facilities	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
<input type="checkbox"/> Other Institutional	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
<input type="checkbox"/> Health Care Facilities	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
<input type="checkbox"/> Industrial Facilities or Processes	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
<input type="checkbox"/> Public Assembly	<input type="checkbox"/> New	<input type="checkbox"/> Existing or	<input type="checkbox"/> EBCx
<input type="checkbox"/> Residential (Single and Multi-Family)			

Start thinking now about the projects that opened for operation on or before September 1st, 2022

Houston Chapter submission deadline is Friday, February 17th, 2023.

Contact Catherine Tinkler – CTTC Chair for additional information and instruction on how to submit your project.

ctinkler@pagethink.com

Benefits of Winning a Technology Award



Recognized by peers as being innovative and capable of achieving a high level of competence



Recognition on ASHRAE's website



Winning projects are highlighted in the ASHRAE Journal and High Performing Buildings Magazine



Opportunity to bring additional recognition and prestige to buildings with innovative design



First place awards and the Engineering Award of Excellence are honored at the Plenary Session of the Society's Winter Meeting





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1) MECHANICAL PLAN

- ◆ Clarify the HVAC system is an existing or new system, otherwise current code requirement shall be complied with a. 2015 UMC with Houston Amendments for mechanical, b. 2015 Energy Code, either International Energy Code Conservation or ASHRAE 90.1 (2013). c. 2015 IBC for roof loads on existing building.

2) ENERGY CODE COMPLIANCE WITH COMCHECK

- ◆ Provide a calculation of heating and cooling loads - Section C403.2.1, 2015 IECC Design loads associated with heating, ventilating and air conditioning of the building shall be determined in accordance with ANSI/ ASHRAE/ ACCA Standard 183 or by an approved equivalent computational procedure using the design parameters specified in Chapter 3

3) VENTILATION REQUIREMENT

- ◆ Provide an outdoor air ventilation per Section 402 and the calculation shall be based on Section 403 and 404 with Table 402.1, 2015 UMC. The design outdoor air intake flow rate for a ventilation system shall be determined in accordance with Section 403.2 through Section 403.8 in conjunction with Table 403.2.2 or 403.5.2, and exhaust rates Table 403.7 respectively.

4) PENETRATION WITH PROTECTION DEVICE

- ◆ Where required rated-damper – Section 717.5, 2015 IBC Fire dampers, Smoke dampers and Combination fire/smoke dampers; or Ceiling radiation damper shall be provided at the location as prescribed in Sections 717.5.1 through 717.5.7 and 717.6, 2015 IBC

5) COMBUSTION AIR AND PROCESS AIR REQUIREMENT

- ◆ Provide a combustion air calculation and intake air method for gas fire furnace, dryer machine, water heater/boiler, etc. based on Chapter 7, 2015 UMC

6) BUILDING AIR BALANCE AND CALCULATION

- ◆ Provide a makeup air and building air balance to exhaust system installed in the space such as nail salon ventilation system, kitchen exhaust hood, any product conveying system, etc., and shall comply with Chapter 5, 2015 IBC

7) COMBUSTIBLE MATERIALS AND LOCATION

- ◆ Combustible materials within return air ducts/ plenums is prohibited per Section 602.2, 2015 UMC Materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed rating of not more than 50 when tested as a composite product in general.

8) PROHIBITED INSTALLATION LOCATION

- ◆ a. The installation of air handling and refrigeration units within the same room is prohibited - Section 1106.8, 2015 UMC
- ◆ b. Clothes dryer moisture exhaust ducts under positive pressure shall not extend into or through ducts or plenums.
- ◆ c. Manually operated dampers shall not be installed in combustion-air openings.

9) PROHIBITED PENETRATIONS

- ◆ Penetrations into enclosures for exit access stairways, exit access ramps, interior exit stairways, interior exit ramps or an exit passageway shall be allowed only when permitted by Section 1009.3.1.5, 1022.5 or 1023.6. respectively – Section 707.7.1, 2015 IBC

10) AIR MOVEMENT IN CORRIDORS

- ◆ Corridors shall not serve as supply, return, exhaust, relief, or ventilation air ducts Section 1018.5, 2015 IB



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ASHRAE HVAC Design Training

ASHRAE is organizing the HVAC Design Training in Austin, TX on November 14-18, 2022. The training will be offered in two parts: Level I–Essentials on November 14-16 and Level II–Applications on November 17-18. We are seeking a push from the Houston Chapter to help promote the training to Chapter members and other area associates. An email and social media promotion from the Chapter would boost our efforts!

Attached is an HTML promotion detailing the training that you can forward to your Chapter members. Visit the HVAC Design Training webpage at www.ashrae.org/hvacdesign for more details on the value of this training.

HVAC Design: Level I ? Essentials

When: November 14 ? 16, 2022 | Austin, TX

Level I ? Essentials November 14 ? 16, 2022	Member	Non-Member
Early Bird ? 60 Days	\$1,086	\$1,358
Early Bird ? 30 Days	\$1,109	\$1,386
Standard	\$1,143	\$1,429

[Register Now](#)

ASHRAE's HVAC Design: Level I ? Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

YOUR INSTRUCTORS



**Donald Brandt, CEM, Life Member
ASHRAE, BEAP**
[>> View Bio](#)



**Dennis Wessel, P.E., Fellow/Life
Member ASHRAE, LEED? AP**
[>> View Bio](#)

HVAC Design: Level II ? Applications

When: November 17 ? 18, 2022 | Austin, TX

Level II ? Applications November 17 ? 18, 2022	Member	Non-Member
Early Bird ? 60 Days	\$747	\$934
Early Bird ? 30 Days	\$763	\$954
Standard	\$786	\$983

[Register Now](#)

**Register for BOTH training sessions to save money
and fast track your experience level!**

ASHRAE's HVAC Design: Level II ? Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I ? Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability/Green/LEED/HPB/NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

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YEA



Tim Navarro
2022-2023 YEA Chair
tim.navarro@carrier.com

Please welcome Tim Navarro as your returning YEA chair for the 2022-2023 year! Tim continues to coordinate monthly happy hours to grow and develop relationships within the Houston ASHRAE community. Contact Tim if you are interested in sponsoring.

Help Wanted!

Tim is actively looking for sponsors to host the monthly YEA events. This is a great way to promote your organization within the Engineering Community.

E-Mail Tim today to get signed up!

DIA

Diversity in ASHRAE!

As our world (hopefully) moves toward a new normal, we look forward to engaging in meaningful discussions, hosting facility tours, and coordinating lively social events in whatever the appropriate manner may be.

For the upcoming year DIA aims to provide

- A network of women supporting all individuals in the industry
- Opportunities for professional growth and development
- Leadership skills
- Broader exposure and awareness through outreach programs

We will also work in connection with Shannon Yancey, Chair position for Membership, to help grow and bring awareness to DIA. I am thrilled to serve as your Co-Chair for the next year and look forward to endless possibilities.

Please feel free to contact me, Krista Villanueva or Lauren Ramos, with any questions or suggestions!

[Kvillanueva@gulfcoastboiler.com](mailto:kvillanueva@gulfcoastboiler.com)

| lauren.ramos@dialecticeng.com



KRISTA VILLANUEVA



LAUREN RAMOS

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SEPTEMBER

STUDENT ACTIVITIES



ASHRAE 2022 Design Competition

HVAC System Selection Competition

The HVAC Systems Selection Category should be viewed as an "advanced" version of the HVAC Design Calculations Category. This is appropriate for students in a multi-course HVAC&R curriculum of study. The student design team is required to perform a life cycle cost analysis to compare and select a mechanical system that provides the lowest life cycle cost, all while staying within a set construction budget.

Similar to the HVAC Design Calculations category, each team is required to determine the building's cooling and heating loads in order to determine the required capacities of the building's HVAC&R systems: cooling and heating plants, air distribution system and equipment, and hydronic/steam piping systems as determined by the team.

The submission for HVAC System Selection Category is limited to 15-minute visual aid (PowerPoint, YouTube, etc.) ALONG with a 30-page maximum technical report, using 11 point Arial or Times New Roman font submitted in PDF format.



2022 Rising Star Award

TEXAS A&M UNIVERSITY Student Branch

This competition is for students at schools completing a dedicated HVAC&R or building environmental systems curriculum. The project encourages students with a solid HVAC&R base to use a life-cycle cost process to compare and select the building HVAC system(s) as well as incorporate the sustainability process promoted by ASHRAE by integrating ASHRAE Standard 189.1 "Standard for the Design of High-Performance Green Buildings."

The 2022 student competition focuses on a new building on a higher education campus in Sydney, New South Wales, Australia.