

THE THERM

MONTHLY NEWSLETTER

Join us for our January Meeting!

Healthy Buildings: Designing for Life

Keynote Speaker will be:

2025-26 ASHRAE President Bill McQuade,

P.E., CDP, Fellow ASHRAE, LEED AP



McQuade's theme for the 2025-26 ASHRAE Society Year is "Healthy Buildings: Designing for Life."

"Balancing energy efficiency with good IEQ ensures that buildings are not only environmentally sustainable but also conducive to the health and productivity of their occupants, creating a win-win situation for both people and the planet."

McQuade's theme highlights the interplay between energy efficiency and IEQ and presents practical solutions to enhance air quality, thermal comfort, acoustics, lighting and water quality in buildings.

Bill's speech will be followed by a panel discussion from some of the leading Engineers, Contractors, & Manufacturer Representatives in the DFW Market.

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REMINDER

TO REGISTER:



[Register Here](#)

NEXT CHAPTER MEETING

JANUARY 19, 2026

Lunch Meeting
11:30AM - 1:00PM



TEXAS AIR
SYSTEMS DALLAS

8081 ROYAL RIDGE PKWY
IRVING, TX 75063

VOLUNTEERS NEEDED:

AS
STUDENT ACTIVITIES
CHAMPIONS!
PLEASE CONTACT
CALEB GENTRY
TO GET INVOLVED!
CGENTRY@OLSSON.COM



PRESIDENT'S MESSAGE

Whitney Lampe | ASHRAE Fort Worth Chapter President 2025-2026



Cowtown ASHRAE Members & Friends:

Happy New Year! I hope everyone had a great holiday break and that your 2026 is off to a strong start. Our board met on January 8th to kick off the year, and we are working on finalizing details for a Refrigeration Tour and Poker Tournament in February, as well as our Spring Golf Tournament in March. Please check our website over the next few weeks for dates and additional information regarding these upcoming events.

December Events: Annual Ethics Meeting and YEA Holiday Happy Hour

We wrapped up 2025 on a high note with our annual joint Ethics meeting with the ASHRAE Dallas Chapter. We had a great turnout from both chapters with more than 85 people in attendance. A huge thank you to ASHRAE Distinguished Lecturer Tim Wentz for his insightful talk on construction ethics. It was also great to see so many of you at our joint YEA Happy Hour at Chill Bar & Grill. This was a perfect way to kick off the festive holiday season with our industry friends across the metroplex.

Upcoming: Joint Meeting Welcoming ASHRAE Society President Bill McQuade

Our first event of the year is a big one! We are partnering with ASHRAE Dallas, ASA, BOMA, and TEXO for a special event featuring President McQuade as our keynote speaker.

Date: Monday, January 19th

Time: 3:30 PM – 7:00 PM

Location: Texas Air Systems

Keynote Speaker: Bill McQuade, 2025-2026 ASHRAE Society President

President McQuade will be presenting his society theme for this year, "Healthy Buildings: Designing for Life," followed by a panel discussion featuring some of the top Engineers, Contractors, and Manufacturers in the DFW market. Registration is open online, sign up today!

If you are looking for a New Year's Resolution, consider becoming more involved in ASHRAE. We are always looking for new volunteers to help with event planning, communications, and membership outreach. Please reach out to myself or a current board member if you are interested in learning about ways to get plugged in.

Thank you for being part of our chapter. I can't wait to see everyone on the 19th as we welcome President McQuade to North Texas!

Whitney Lampe
ASHRAE Fort Worth Chapter President

THANK YOU TO LAST YEARS SPONSORS!

PLATINUM



GOLD



SILVER



THANK YOU PARTNERS!

ENGINEERING SENIOR ASSOCIATE



We will be reaching out to existing Sponsors and Partners for renewal for the 2025 - 2026 year! Please reach out to our Research Promotion Chair - Ryan Edwards at redwards@dfwsgi.com for information if you would like to become a sponsor.

PRESERVING HISTORY, ENGINEERING THE FUTURE: WILL ROGERS MEMORIAL COLISEUM RENOVATION

A Dome with Decades of Duty

The Will Rogers Memorial Coliseum has stood as a Fort Worth landmark since 1936, its Art Deco dome hosting generations of livestock shows, equestrian sports, and civic events. Nearly 90 years later, its HVAC systems—layered with mid-century updates and 1980s retrofits—is experiencing a renewal. We interviewed Scott West, P.E. of Summit Consultants, who is the mechanical lead for a renovation of the Will Rogers Memorial Coliseum to further its HVAC capabilities without erasing its legacy.



Photo: Will Rogers Memorial Coliseum, Memorial Tower and the Municipal Auditorium, Fort Worth, Texas, CA. 1941 (Fort Worth Star-Telegram Collection, University of Texas at Arlington Libraries, Special Collections)

Revisiting the Past

Originally opened during the Texas Centennial, the Coliseum was naturally ventilated. Large perimeter louvers and penthouse exhaust fans provided airflow for crowds and cattle alike. Heating came via boiler systems and ventilation was augmented through rooftop ventilators. In the 1960s, a first wave of air handlers and ductwork was added above the mezzanine. The systems were noisy, inefficient, and hard to maintain. The distributed AHUs were served by a chilled water reverse return loop, with a two-pipe changeover to hot water for the heating season. The 1980s saw expansion to the south with the addition of the Burnett Stalls with air handling equipment mounted on new mezzanines.

A Full Mechanical Overhaul

The latest modernization replaced that aging patchwork with a fully reimagined system. West and team removed the mezzanine units entirely and constructed a new structural platform on the south roof to support four custom air-handling units—two for the arena, two for the concourse and support spaces. Each of the arena units delivers 45,000 CFM via a dual-ring fabric duct system suspended *within* the dome's steel trusses. One ring serves the upper volume; the other the lower seating and floor.

The fabric system was necessitated by structural constraints and future scoreboard mounting, replacing an earlier metal duct design. It enables better acoustic performance, easier cleaning (via zippered segments), and operational flexibility—only one ring runs during low-occupancy events. Fan arrays, VFDs, and full DDC controls optimize turndown and scheduling.



Photo: Scott West – December-2025

Modern Performance, Historic Envelope

The system brings the Coliseum up to current code and comfort expectations. Demand-controlled ventilation, economizers, and MERV 13 filtration are all included. Bipolar ionization was added to address the dust generated by rodeo dirt floors, and hot water preheat coils protect against winter freeze risk. Chilled and heating water is provided by the nearby central plant—a major design priority for West. "We wanted to maximize existing utility capacity instead of going with DX everywhere," he noted. This helped take advantage of existing infrastructure and keeps maintenance activities more centralized and away from occupied areas.

Supply ducts run through a custom ring manifold with branch lines concealed in the historic structure. Return fans and relief dampers manage pressurization. Additional air handlers serve new kitchen and event spaces via VAV systems, and a pair of dedicated DOAS units handles 14,000 CFM of kitchen exhaust makeup.

Balancing Design and Legacy

A significant challenge was maintaining visual integrity. The team worked closely with preservation authorities to minimize duct exposure. Running duct inside the dome trusses reduced visual clutter. Concourses were converted to VAV zones, with equipment painted black and slatted ceilings removed to expose historic structure.

Scott West and his team worked with the Will Rogers Memorial Center and Grace Design architects extensively during the project to ensure the historical elements of the building were not lost. "They (WRMC) have a lot of their own stakeholders, and they know this community and use the building a lot," West said. "They know the nostalgia and history of it."

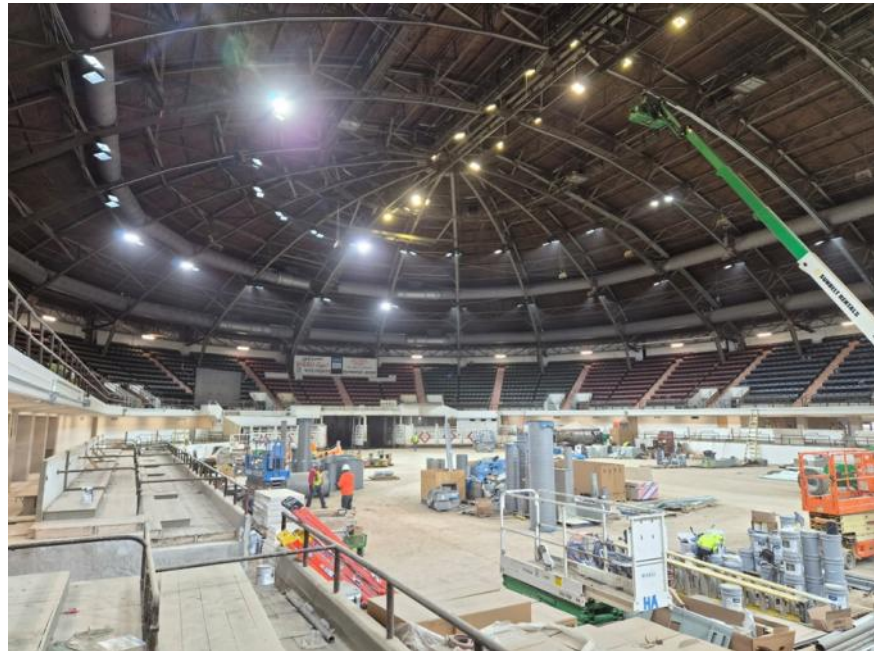


Photo: Scott West – December-2025

Looking Ahead

As of late 2025, the Coliseum's new HVAC systems are operational, with future phases planned for adjacent Will Rogers Memorial Center buildings. The design leaves room for future plant connections and DX-to-chilled conversions. The historic building now boasts 21st-century air quality, flexibility, and control—without compromising its 1936 character.

For members tackling legacy retrofits, the Will Rogers Coliseum illustrates how constraint can spark creativity. It also showcases the value of proactive engagement with historic stakeholders, rigorous coordination of architecture and structure, and the benefits of fabric air dispersion in large-volume, acoustically sensitive spaces. West's team didn't just preserve history—they engineered it forward.

Jason Hall & Jeremy Snyder
ASHRAE Fort Worth Co-Historians

If there is an influential member of the chapter, or a historical building in Fort Worth that you would like to hear about, please reach out to Jason Hall (jason.hall@victaulic.com) or Jeremy Snyder (jsnyder@bhvinc.com)

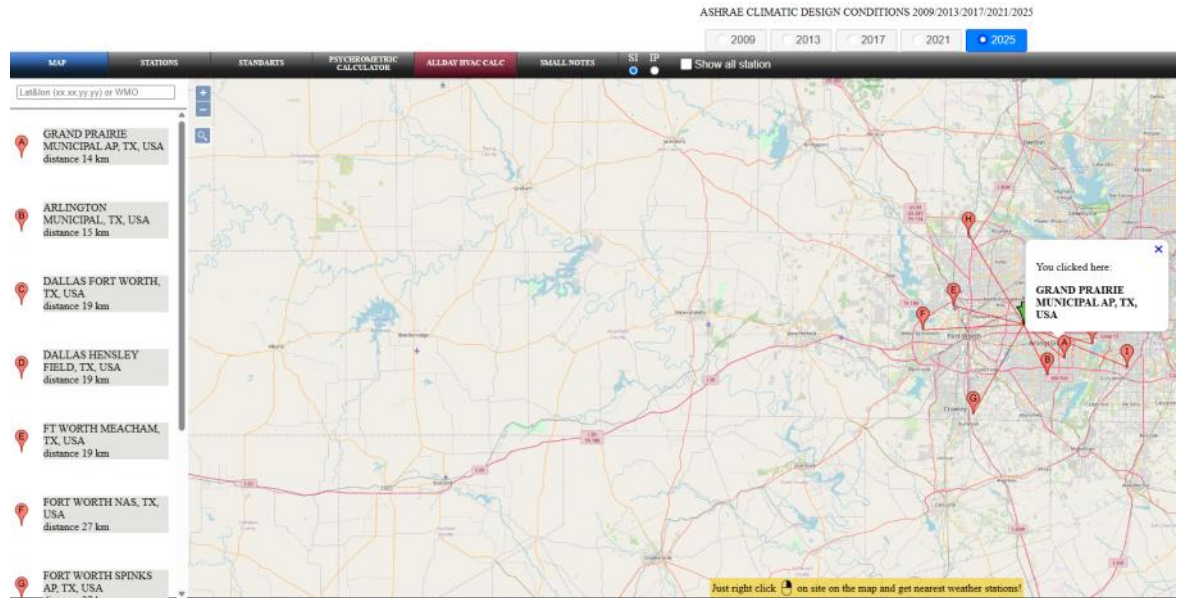
Did you know? - ASHRAE CLIMATIC CONDITIONS

ASHRAE CLIMATIC CONDITIONS

Did you know that you no longer need search through old files or books for ASHRAE climatic/design conditions?

There is an virtual web tool that quickly allows you to pull up any locations design information in SI or IP: <https://ashrae-meteo.info/v3.0/index.php>

No exact location? That's been covered as well. Right click and it will list the closest design locations to your building.



2025 ASHRAE Handbook - Fundamentals (IP)

Compare



GRAND PRAIRIE MUNICIPAL AP, TX, USA (WMO: 722094)

Lat: 32.699N Lon: 97.047W Elev: 589 StdP: 14.39 Time zone: -6.00 (NAC) Period: 2004-2023 Grade: A WBAN: 53984

Annual Heating, Humidification, and Ventilation Design Conditions

Coldest Month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD to 99.6% DB		WSF
	99.6%	99%	99.6%		99%		0.4%		1%		MCWS	PCWD			
	DP	HR	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD	
1	24.1	28.6	9.0	8.9	34.1	13.3	11.0	37.9	23.1	52.9	20.8	54.4	8.4	350	0.443

Annual Cooling, Dehumidification, and Enthalpy Design Conditions

Hottest Month	Hottest Month DB Range	Cooling DB/MCWB						Evaporation WB/MCDB						MCWS/PCWD to 0.4% DB	
		0.4%		1%		2%		0.4%		1%		2%		MCWS	PCWD
		DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD
7	19.1	102.3	73.1	99.7	73.0	97.3	73.1	77.6	89.7	76.6	89.1	75.8	88.1	8.2	150

Dehumidification DP/MCDB and HR

DP	0.4%		1%		2%		Enthalpy/MCDB						Extreme Max WB		
	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	0.4%		1%			2%	
									Enth	MCDB	Enth	MCDB	Enth	MCDB	
75.1	134.5	78.7	73.8	128.6	79.8	72.5	123.0	80.6	41.2	88.0	40.3	89.1	39.5	88.6	82.8

Extreme Annual Design Conditions

Extreme Annual WS			Extreme Annual Temperature				n-Year Return Period Values of Extreme Temperature								
1%	2.5%	5%	Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years		
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
20.3	17.5	15.7	DB	18.7	104.5	5.8	3.0	14.5	106.7	11.1	108.5	7.9	110.2	3.7	112.4
			WB	16.1	79.5	5.5	1.4	12.1	80.5	8.9	81.3	5.8	82.1	1.8	83.1

Monthly Climatic Design Conditions

		Annual	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Temperatures, Degree-Days	DBAvg	67.8	48.2	51.6	60.3	66.4	74.1	82.8	86.1	86.0	80.1	69.0
DBStd	15.62		9.32	11.14	9.21	7.64	6.21	4.24	4.17	4.70	5.64	8.53	9.33	9.98
HDD50	430		143	105	25	3	0	0	0	0	0	4	33	117
HDD65	1959		525	388	196	72	11	0	0	0	0	59	247	461
CDD50	6942		87	149	345	496	748	984	1119	1116	903	594	270	131
	CDD65	2996	3	12	52	115	294	534	654	651	454	184	33	10



Take a Breath of Fresh Air!

U.S. Department of Housing and Urban Development (HUD)
Healthy Homes Technical Studies



Take a Breath of Fresh Air

If you have asthma, you may be eligible to participate in our 2-year joint research study between University of Texas at Arlington and Rebuilding Together North Texas

We aim to improve indoor air quality (IAQ) and potentially asthma symptoms through residential ventilation systems or portable HEPA air cleaners



Are you eligible?

- You and/or other family member(s) have physician-diagnosed asthma
- Your home is owner-occupied
- Your home is non-smoking

Study requirements

- Initial home assessment visit
- 4 home visits: (i) IAQ monitoring, (ii) health surveys, and (iii) lung function testing
- Monthly 5-item Asthma Control Test (ACT) survey via phone calls

Benefits?

- Improved IAQ during or after study, which may contribute to better asthma control
- An energy recovery ventilator or 1-2 portable HEPA air cleaners at no cost
- Participant Incentives: \$200 Plus, \$100 for each additional eligible family member

Want to learn more?

Dr. Insung Kang, Ph.D.

Assistant Professor

Department of Civil Engineering

E-mail: insung.kang@uta.edu

Phone: (817) 272-2167 (call only)



Department of Civil Engineering



Rebuilding Together.
North Texas



December Chapter Meeting

On Wednesday, December 10th we held our monthly ASHRAE meeting jointly with the Dallas chapter, with Tim Wentz presenting on Ethics in Construction. We had an excellent turnout at McMillan James for lunch, with 67 registered attendees (not counting walk-ins!). We also had an excellent turnout at our Joint YEA Happy Hour! Thank you to everyone that came out!!!



EVENT ALERT!

REGISTER NOW! - Refrigeration Tour



Fort Worth ASHRAE Refrigeration Tour

Date: Thursday February 12th, 2026

Where: Hop & Sting Brewing Co.

Time: Arrive 4:00; Tour starts 4:30

Parking: 906 Jean Street

Grapevine, Texas, 76051

Join the Fort Worth and Dallas chapters of ASHRAE as we tour the refrigeration and brewery systems of Hop and Sting Brewing. The tour is free and available to the first 15 Fort Worth Chapter members to sign up.

This is a unique opportunity to see firsthand how HVAC technology plays a critical role in brewing operations, while getting a behind the scenes look at the brewery. Join us for a YEA Happy Hour afterwards.

Please register online at: <https://ashrae-ftw.org>



REGISTER NOW!

2026 ASHRAE Fort Worth Texas Hold 'Em Poker Tournament



Date: Wednesday, February 25th 2026

Location: Texas Air Systems

2800 NE Loop 820 Suite 600

Fort Worth, TX 76137

Time: Dinner at 6:00PM, Tournament start at 6:30PM

Cost: \$60 buy-in per person with re-buys until level 6

Format: No limit Texas Hold 'Em, 15 minute blind levels

Prizes: Prize pool for top 3 contenders. Portion of proceeds will be donated to ASHRAE research

EVENT ALERT!

REGISTER NOW FOR REGION 8 CRC!





ASHRAE
Region VIII

BIG ON
LITTLE ROCK

Region 8
**CHAPTER REGIONAL
CONFERENCE**

 April 23-25, 2026  Little Rock, AR

REGISTER NOW →







EVENT ALERT!

2026 LEADERSHIP SYMPOSIUM
WOMEN IN ASHRAE:
SIGNUP [HERE](#)



Registration is now open for the 2026 Women in ASHRAE Leadership Symposium April 13-14, 2026, in Los Angeles, CA!

After a sold-out debut, the Women in ASHRAE Leadership Symposium returns bigger, bolder, and more empowering than ever!

Join us for TWO FULL days of connection, inspiration, and leadership growth with women from across the HVACR industry, from students and early-career professionals to seasoned veterans. This isn't just for engineers. It's for every woman making an impact on the built environment.

Whether you're here to build your network, develop your leadership skills, or cheer on the next generation through the Young Women in ASHRAE EmpowerHERment Award competition, YOU BELONG HERE!

Empower, Elevate, Lead. Belong!

"Whether you're just starting your career or leading the charge, this is your moment to grow, recharge, and build meaningful connections. Two powerful days. Game-changing inspiration. Unforgettable energy. Don't just hear about it—be part of it."

Conference Chair, Karine Leblanc



DECEMBER BOG MEETING MINUTES

CHAPTER SECRETARY - Max Meyers

MEETING MINUTES

———No BOG Meeting in December.———



2025-2026 CHAPTER OFFICERS

Interested in volunteering for the upcoming ASHRAE year? Please reach out to Kyle Troskot at [K.TROSKOT@DRYCORHVAC.COM](mailto:k.troskot@drycorhvac.com) for additional information.

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TREASURER SUMMARY

Below you'll find the chapter accounting transactions for the month of Dec 2025.

DECEMBER 2025

TREASURER'S REPORT

CHAPTER TREASURER - Michael Cox



December 2025 Treasurer's Report (by Michael Cox)

Starting Balance (11/28/2025):	<u><u>\$79,650.36</u></u>
Debits	
12-02 FULLSTEAM SV9T - STARCHAPTER CARD MONTHLY FEES & PCI MANAGEMENT NON-COMPLIANCE FEE	(\$49.90)
12-11 FULLSTEAM SV9T - December Lunch Meeting (1 member) - Refund	(\$35.00)
11-18 StarChapter - STARCHAPTER SERVICE SUBSCRIPTION FEE	(\$126.00)
12-26 CHECK #1240 - ASHRAE FW DL OCT 15 MEETING	(\$1,385.92)
Subtotal:	<u><u>(\$1,596.82)</u></u>
Credits	
12-03 FULLSTEAM SV9T - December Lunch Meeting (3 member)	\$100.39
12-04 FULLSTEAM SV9T - December Lunch Meeting (1 member & 1 non-member)	\$91.51
12-05 FULLSTEAM SV9T - December Lunch Meeting (1 member & 3 non-member)	\$206.81
12-08 FULLSTEAM SV9T - December Lunch Meeting (1 member)	\$33.46
12-08 FULLSTEAM SV9T - December Lunch Meeting (1 member)	\$33.46
12-11 Square Inc - December Lunch Meeting (1 member-late)	\$43.68
12-15 MOBILE DEPOSIT - ASHRAE November Dues	\$315.00
12-15 MOBILE DEPOSIT - ASHRAE August Dues	\$385.00
12-15 MOBILE DEPOSIT - Joint ASHRAE Lunch - Hard Eight - ASHRAE Dallas Chapter	\$1,643.18
12-15 MOBILE DEPOSIT - ASHRAE FW Silver Sponsorship - Bartos Industries '25-'26	\$4,500.00
12-15 MOBILE DEPOSIT - ASHRAE FW Gold Sponsorship - MJEC '25-'26	\$6,500.00
12-17 FULLSTEAM SV9T - January Lunch Meeting (3 member & 2 non-member)	\$317.68
12-26 FULLSTEAM SV9T - January Lunch Meeting (1 member)	\$57.65
12-31 FULLSTEAM SV9T - January Lunch Meeting (2 member & 1 non-member)	\$187.46
Subtotal:	<u><u>\$14,415.28</u></u>
Ending Balance (12/31/2025)	<u><u>\$92,468.82</u></u>



YEAR AT A GLANCE / SAVE THE DATE!

ASHRAE FORT WORTH CALENDAR 2025-2026

January 19, 2026	Joint Panel Meeting Healthy Buildings: Designing for Life
January 31– February 4, 2026	2026 ASHRAE Winter Conference Las Vegas, NV
February 18, 2026	February Lunch Meeting Petroleum Club
March 11, 2026	March Lunch Meeting Speaker: Mick Schedler, ASHRAE Distinguished Lecturer
April 15, 2026	April Lunch Meeting Petroleum Club
April 23 – 25, 2026	Region VIII CRC Little Rock, AR
May 20, 2026	May Lunch Meeting Speaker: Jim Coogan, ASHRAE Distinguished Lecturer

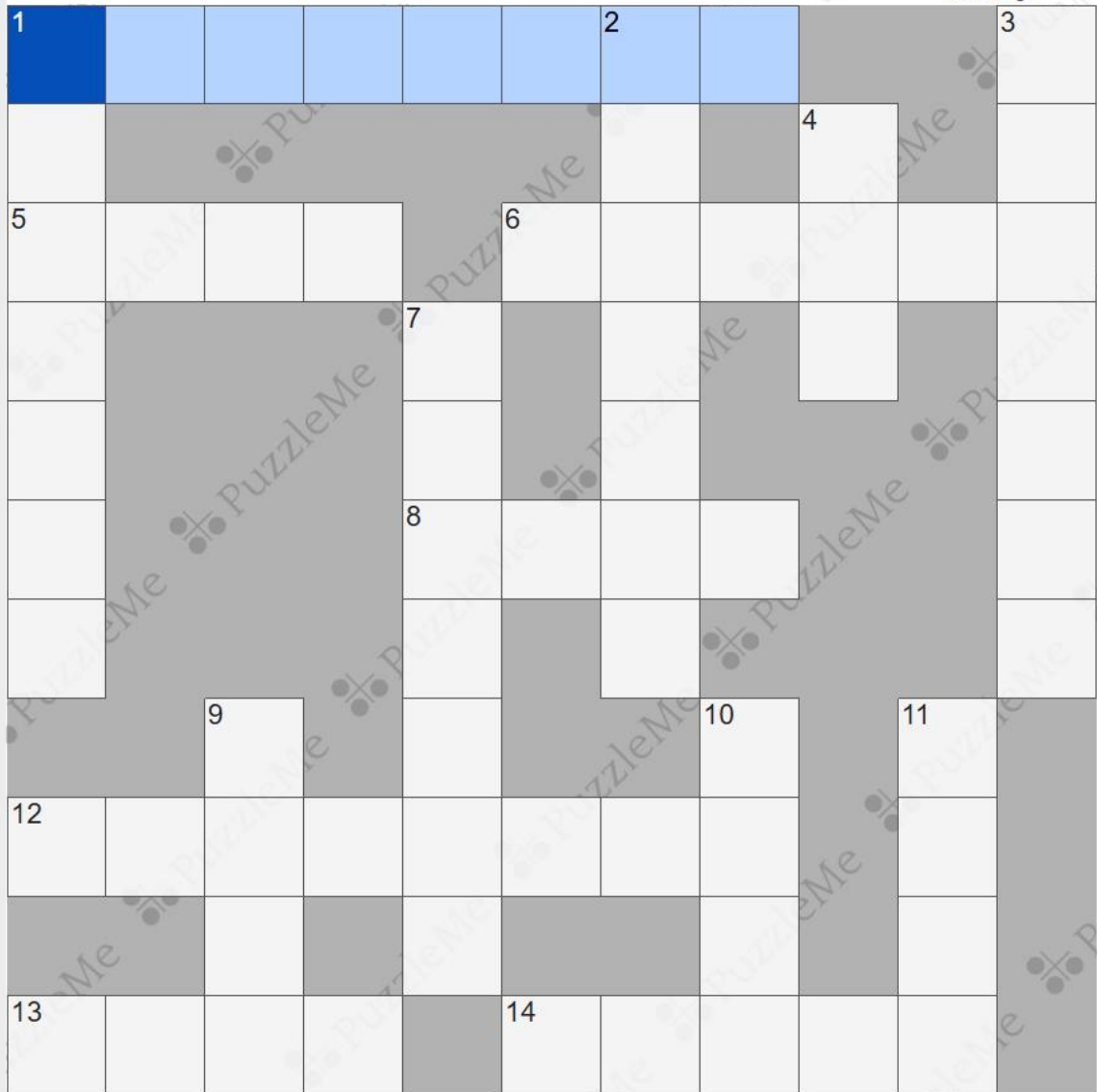


This months crossword theme is Healthy Buildings!

ACROSS

DOWN

- 1 Moisture level in healthy indoor air
- 5 Common abbreviation for air conditioning
- 6 Maintenance task for HVAC systems
- 8 Building system for heating, ventilation, and cooling
- 12 Monitored factor affecting air movement
- 13 Unwanted growth prevented by moisture control
- 14 Intelligent building, eg
- 1 HVAC function for warmth
- 2 Relating to heat and comfort
- 3 Movement of air within a building
- 4 Automated building control system (Abbr)
- 7 System for removing stale air
- 9 Action to prevent air leaks
- 10 High-efficiency air filter type
- 11 Opening for air exchange



CROSSWORD KEY:

	T	R	A	M	S		D	L	O	M
	N		P			T		A		
	E		E	R	U	S	S	E	R	P
	V		H			U		S		
W			L			A				G
O			C	A	V	H				N
L				M		X				I
F		S		R		E				T
R	I	A	P	E	R		D	I	C	A
I		B		H						E
A			Y	T	I	D	I	M	U	H

MESSAGE FROM THE EDITOR:

Newsletter Editor: Kyle Troskot

Thank you for reading The Therm! I hope you enjoyed this months edition.

Questions or Feedback? Need to contact us? Visit www.ashrae-ftw.org

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