

# THE THERM

## MONTHLY NEWSLETTER

### NEXT CHAPTER MEETING

MAY 21, 2025  
Lunch Meeting  
11:30AM - 1:00PM



### PETROLEUM CLUB

777 MAIN STREET  
FORT WORTH, TX 76102



Join us for our May Meeting!

### PRESENT STATE AND FUTURE OF HVAC IN SPACE

As humanity ventures further into space—with extended missions to the Moon, Mars, and beyond—the role of HVAC engineers is expanding beyond terrestrial boundaries. This talk explores the present state and future of Environmental Control and Life Support Systems (ECLSS), the functional equivalent of HVAC systems in space habitats. Using the International Space Station (ISS) as a case study, we will review how systems for temperature regulation, humidity control, CO<sub>2</sub> removal, air revitalization, and thermal management are engineered to maintain livable conditions in the extreme space environment. The presentation will also highlight key challenges—such as microgravity, radiation, and limited energy budgets—and discuss the engineering solutions being developed to address them. In addition, we will introduce ASHRAE's newly established Technical Committee 9.13 Space, which focuses on HVAC technologies for space applications. The talk concludes with reflections on how innovations in space HVAC may translate into more efficient, resilient systems here on Earth.

#### Speaker: Dr. Hamidreza Najafi

Dr. Hamidreza Najafi is an Associate Professor of Mechanical Engineering and Director of the Innovations in Sustainable Energy and Thermal Systems (ISETS) group at the Florida Institute of Technology. His research focuses on the design and optimization of thermal and energy systems, computational heat transfer, and energy-efficient built environments. He has co-authored over 70 peer-reviewed journal and conference papers, as well as a book (Wiley, 2023) and a book chapter (Springer, 2021). Dr. Najafi's work has been funded by prominent agencies such as the U.S. Department of Energy, NASA, the National Science Foundation, the Florida Department of Agriculture and Consumer Services, ASHRAE, and various private industries. He is an Executive Committee member of the American Society of Thermal and Fluids Engineers (ASTFE), Associate Editor of the ASME Journal of Engineering for Sustainable Buildings and Cities and co-chair of the ASME Computational Heat Transfer Technical Committee. He has been serving as the ASHRAE Student Branch Advisor of Florida Institute of Technology since 2015 and served as the Vice-Chair of the ASHRAE TC 9.13 Space (2022-2024). Before joining Florida Tech, Dr. Najafi was a lead graduate student and engineer at the Alabama Industrial Assessment Center (funded by the U.S. DOE) from 2011 to 2015, where he worked on improving the efficiency and decarbonization of industrial energy systems.

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### SAVE THE DATE

## 2025 ASHRAE Annual Conference

June 21-25, 2025

Phoenix, AZ

Registration is Open!



## PRESIDENT'S MESSAGE

Ryan Edwards, P.E. | ASHRAE Fort Worth Chapter President 2024-2025



Cowtown ASHRAE Members and Friends:

As we close out the 2024–2025 ASHRAE year, I want to take a moment to reflect on the incredible journey we've taken together and express my sincere appreciation for your continued support, participation, and leadership.

This year has been marked by progress, resilience, and meaningful connection. From insightful technical programs to strong student engagement and successful fundraising events, the Fort Worth Chapter has continued to grow and make an impact—not just within ASHRAE, but throughout our local community and industry.

Some highlights from this past year include:

- **Expanded technical programming** kept us informed on emerging trends like electrification, IAQ, and decarbonization. Special shout out to Michael Cox, our CTC chair this year, and his committee for lining up an absolutely fantastic year of presentations for us to enjoy. While we'll miss Michael in the CTC role next year, we're excited for him to start running the chairs and the bright future he's sure to bring to Fort Worth ASHRAE.
- **Student scholarships and mentoring** that helped shape the next generation of HVAC&R professionals. I personally enjoyed watching our very own UTA students thrive in the ASHRAE design competition and am excited for the future of our student activities. Caleb Gentry will continue to do a great job in his capacity as SA chair for the next ASHRAE year. He's already working with other schools to found or rejuvenate student chapters around our area and to educate more students about our wonderful industry.
- **Community involvement** through events like our golf tournament and outreach efforts, which showcased the heart and spirit of our chapter. We've become an established contributor to the Cowtown cleanup and the TRWD Trash Bash over the last few years, and I am excited to see how our community involvement continues to grow in new and innovative ways.

As we transition leadership to next year's board, I want to thank the officers, committee chairs, volunteers, and members who made this year a success. It takes a team effort to run a chapter, and I've been proud to serve alongside such a dedicated group of professionals.

If you've been thinking about getting more involved, now is the perfect time. Whether you're interested in leadership, technical education, student outreach, or just building your local network, there's a place for you here. I wish the incoming leadership team all the best and look forward to seeing how the chapter continues to thrive in the year ahead.

Thank you again for the opportunity to serve as your chapter president. It's been an honor.

With gratitude,

Ryan Edwards  
President, ASHRAE Fort Worth Chapter  
redwards@dfwcgi.com



THANK YOU SPONSORS!

PLATINUM



GOLD



SILVER



THANK YOU PARTNERS!

ENGINEERING SENIOR ASSOCIATE



We are still looking for Sponsors and Partners for the 2024 - 2025 year! Please reach out to our Research Promotion Chair - Jacob Cantu at [jcantu@bartosindustries.com](mailto:jcantu@bartosindustries.com) for more information.

## APRIL SUSTAINABILITY EVENT

On Saturday, April 26th we participated in the TRWD Trash Bash along the banks of the Trinity River in Fort Worth. Thanks to all the amazing volunteers who gave up their Saturday morning to help clean up our community! And thanks to TRWD for hosting this event!

If you'd like to learn more about the TRWD Trash Bash - or join in next time - you can find more information here: <https://www.trwd.com/trashbash/>

Thank you again to all who helped make this day a success!



## YEA GOLF LESSON

Thanks to everyone who joined us for the ASHRAE YEA golf lesson on Wednesday, May 14th. We had a great golf lesson from Jordan Fain at Rockwood Golf Course.

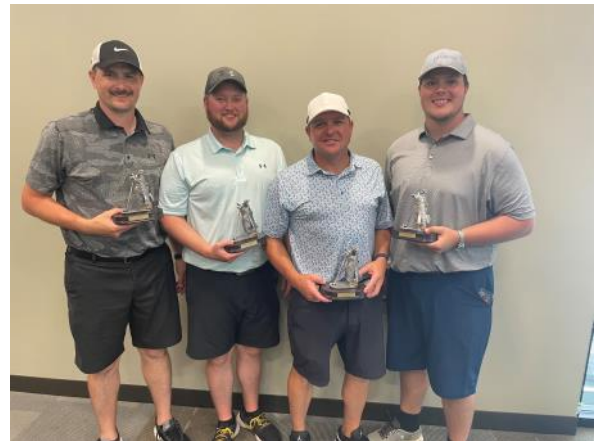


Thanks to McMillan James Equipment Company for sponsoring the event!



## SPRING GOLF TOURNAMENT

Thanks to everyone who joined us for our Spring Golf Tournament on Friday, May 16th at Rockwood Golf Course. We had a great turnout with 35 golf teams. Congratulations to the 1st, 2nd & 3rd place winners!



Thank you to our Sponsors!!!



# MAY BOG MEETING MINUTES

BOG Meeting Agenda

CHAPTER SECRETARY - KYLE TROSKOT

**Call to Order: 1:03pm**

President Elect

Open Positions for new year:

CTTC Co-Chair

DEI / WIA

Historian - Jeremy with potential co-chair

Upcoming Events:

Past President's Night – June 4th

Schedule Audit in June with Richard - Max Meyers

Treasurer, Incoming Treasurer, President need to attend

Clay Shoot - planning on August

Whitney / Kyle - check with Max for Alpine contact

Reach out to Alpine for August availability

Yearly kickoff event? TBD

Secretary

No updates

Treasurer

Schedule end of year audit

Research Promotion

No updates

Student Activities

No updates

Honors and Awards

Fellow App for Mac Wallace submitted

Government Affairs

No update

YEA

Golf lesson rescheduled for May 14th at 5:00pm

Refrigeration

No update

Historian

No update

(CONTINUED ON FOLLOWING PAGE)



## MAY BOG MEETING MINUTES

# MEETING MINUTES

### Membership Promotion

Down 1 from the last month. Up overall for the year.

### CTTC

No updates

### Golf

28 teams registered

6-7 hole sponsors

New sponsor signs - need to order

### DEI

No updates

### Sustainability

No updates

### CRC Chair

Tony Finch

Add Tony Finch to Frost account for future CRC expenses

### President

No updates

**Meeting Adjourned – 1:29pm**

# CHAPTER OFFICERS

OFFICERS/COMMITTEES	NAME	EMAIL
CHAPTER PRESIDENT	Ryan Edwards	redwards@dfwcgi.com
CHAPTER PRESIDENT ELECT	Whitney Lampe	whitneyl@mjec.com
CHAPTER SECRETARY	Kyle Troskot	k.troskot@mojavehvac.com
CHAPTER TREASURER	Max Meyers	mmeyers@bartosindustries.com
BOARD OF GOVERNORS	Tony Finch	tonyf@texasairsystems.com
BOARD OF GOVERNORS	Ashley Fiddelke	ashley.fiddelke@hts.com
BOARD OF GOVERNORS	Jacob Cantu	jcantu@bartosindustries.com
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CHAPTER TECHNOLOGY TRANSFER	Michael Cox	mcox@bhbin.com
CHAPTER SUSTAINABILITY CHAIR	Caleb Barlow	caleb.barlow@freese.com
CHAPTER GRASSROOTS GOVERNMENT CHAIR	Scott West	scott.west@summitnep.com
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CHAPTER COMMUNICATIONS CHAIR	Jay Greene	jerome.greene@mavs.uta.edu
CHAPTER MEMBERSHIP PROMOTION CHAIR	Aaron Volkert	aaron.volkert@carrierenterprise.com
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CHAPTER YEA CO-CHAIR	Casey Miller	casey.miller@jacobs.com
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CHAPTER STUDENT ACTIVITIES CHAIR	Caleb Gentry	cgentry@olsson.com
CHAPTER DEI CHAIR	Ai Sexton	ai.sexton@greese.com
CHAPTER HONORS & AWARDS	Tony Finch	tonyf@texasairsystems.com
CHAPTER WEBMASTER	Jay Greene	jerome.greene@mavs.uta.edu
CHAPTER AUDITING COMMITTEE	Richard Watters	rwatters@bhb.com
NOMINATING COMMITTEE 2025	Allen Grammer, Ashley Fiddelke, Scott West, Tony Finch and Whitney Lampe	

Interested in volunteering for the upcoming 2025-2026 ASHRAE year? Please reach out to Whitney Lampe at whitneyl@mjec.com for additional information.

Thank you to the 2025 Nominating Committee members for your time and help with filling our chapter leadership positions for the upcoming ASHRAE year.

Congratulations to our newly elected Treasurer: Michael Cox!



TREASURER SUMMARY

TREASURER'S REPORT

CHAPTER TREASURER - MAX MEYERS

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

<b>Starting Balance (4/1/2025):</b>	<b>\$49,527.83</b>
<b>Debits</b>	
4/2 Starchapter Monthly Fees	(\$19.95)
4/18 Starchapter Monthly Due	(\$120.00)
4/22 Check 1148 April Lunch	(\$2,076.84)
4/29 Check 1147 ASHRAE Golf Ball Reimbursement	(\$566.67)
<b>Subtotal:</b>	<b><u>(\$2,783.46)</u></b>
<b>Credits</b>	
4/2 April Meeting Registration Starchapter (2 members, 1 non-member)	\$110.06
4/3 April Meeting Registration Starchapter (2 members)	\$66.92
4/4 ASHRAE Poker Money Deposit	\$720.00
4/4 Check deposits (Bartos sponsor \$6,500, Oslin Nation sponsor \$4,500, Chapter dues \$910, Chapter dues \$700, Chapter dues \$460, Chapter dues \$420)	\$13,490.00
4/7 April Meeting Registration Starchapter (3 members)	\$100.39
4/9 April Meeting Registration Starchapter (3 members, 2 non-members) Spring Golf Tournament (3 team registrations, 1 guest ticket)	\$3,233.49
4/10 April Meeting Registration Starchapter (3 members, 4 non-members)	\$273.34
4/11 April Meeting Registration Starchapter (4 members, 1 non-member) Spring Golf Tournament (1 hole sponsor)	\$418.46
4/14 April Meeting Registration Starchapter (2 members, 4 non-members)	\$241.08
4/14 Spring Golf Tournament (1 team registration, 1 hole sponsor)	\$1,450.85
4/15 Square (Texas AirSystems Sponsor)	\$8,219.20
4/16 April Meeting Registration Starchapter (7 members late, 2 non-members late) Spring Golf Tournament (1 team registration)	\$407.59
4/16 Square (Armstrong sponsor)	\$4,351.20
4/17 April Meeting Registration Square (1 member late)	\$43.68
4/17 April Meeting Registration Starchapter (3 members late, 1 non-member late) Spring Golf Tournament (1 team registration)	\$1,149.32
4/21 May Meeting Registration Starchapter (3 members) Spring Golf Tournament (1 hole sponsor)	\$583.74



TREASURER SUMMARY

TREASURER'S REPORT

CHAPTER TREASURER - MAX MEYERS

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

**Credits (continued)**

4/21 Starchapter Spring Golf Tournament (1 team registration)	\$967.10
4/23 May Meeting Registration Starchapter (6 non-members)	\$260.42
4/24 Starchapter Spring Golf Tournament (1 team registration, 1 guest ticket)	\$1,112.22
4/25 Starchapter Spring Golf Tournament (1 team registration, 1 hole sponsor)	\$1,208.98
4/28 May Meeting Registration Starchapter (1 member)	\$33.46
4/30 May Meeting Registration Starchapter (4 members, 2 non-members) Spring Golf Tournament (1 team registration)	\$1,187.62
	<b>Subtotal:</b>
	<b><u>\$39,629.12</u></b>
 <b>Ending Balance (4/30/2025)</b>	 <b>\$86,373.49</b>



YEAR AT A GLANCE / SAVE THE DATE!

# ASHRAE FORT WORTH CALENDAR 2025

May 16, 2025	Spring Golf Tournament Rockwood Golf Course 9am Shotgun Start
May 21, 2025	May Lunch Meeting Present State and Future of HVAC in Space Speaker: Dr. Najafi Petroleum Club
June 4, 2025	Past President's Night Dinner at Petroleum Club 6:00 - 8:00pm
August 2025	Clay Shoot Date TBD Alpine Shooting Range
August 20, 2025	August Lunch Meeting Petroleum Club

Please check our website at <https://ashrae-ftw.org/> for additional information on upcoming events.



# TRIVIA

Word Search

# MAY25

NOTE FROM THE EDITOR

Find the following words in the puzzle. Words are hidden up, down, right, left, and diagonal.

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

- |             |           |         |        |     |
|-------------|-----------|---------|--------|-----|
| REFRIGERANT | BALANCING | THERMAL | RELAYS | BTU |
| THERMOSTAT  | SENSIBLE  | RETURNS | ZONING | CFM |
| COMPRESSOR  | HEATLOAD  | TONNAGE | SPLIT  | EER |
| EVAPORATOR  | SETPOINT  | ASHRAE  | HVAC   | IAQ |
| OUTSIDEAIR  | DIFFUSER  | FILTER  | COIL   | AHU |
| MECHANICAL  | CHILLER   | PLENUM  | DUCT   | VAV |
| CHECKVALVE  | AIRFLOW   | DAMPER  | VENT   |     |
| CONDENSER   | LOUVERS   | LATENT  | SEER   |     |

April Answers: 1 C, 2 B, 3 C, 4 C

0-5 words: "Return Grille Gremlin"  
 6-10 words: "Junior Balancer"  
 11-15 words: "Thermostat Whisperer"  
 16-20 words: "Load Calculatin' Legend"

21-25 words: "ASHRAE Aficionado"  
 26-30 words: "Ductwork Philosopher"  
 31-37 words: "Compressor King/Queen"  
 38 words: "The VFD of Victory"

## MESSAGE FROM THE EDITOR:

Newsletter Editor: Whitney Lampe

Thank you for reading The Therm! This will be my last issue as the Newsletter Editor for the 2024-2025 ASHRAE year. Hope everyone has enjoyed the trivia!

Questions or Feedback? Need to contact us? Visit [www.ashrae-ftw.org](http://www.ashrae-ftw.org)

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## ADDITIONAL CONTEXT FOR APRIL TRIVIA ANSWERS

**Q1: What HVAC feature helps maintain comfort without wasting energy during these temperature swings?**

Answer: It requires balancing dehumidification with cooling as temperatures climb and humidity rises.

Climate Zone 3A is characterized by warm, humid conditions. Spring in Fort Worth often sees rising outdoor temperatures combined with high relative humidity. HVAC systems in this zone must be designed to handle latent loads (moisture removal) while still delivering sensible cooling - often requiring variable speed systems, reheat strategies or dedicated dehumidification to maintain comfort and indoor air quality without overcooling.

**Q2: The historic Texas & Pacific (T&P) Station in Fort Worth, originally built in 1931, is now a mixed-use residential and commercial hub. What HVAC related challenge is most common when retrofitting iconic buildings like this one?**

Answer: Historical preservation codes often limit ductwork and equipment upgrades.

Retrofitting older or historic buildings like the T&P Station comes with architectural and preservation constraints. Duct routing, equipment placement and visible penetrations are often restricted to maintain the building's historical integrity. Engineers must get creative - using mini-split systems, chilled beams or limited impact ductwork solutions that provide modern comfort without violating preservation rules.

**Q3: April in Fort Worth kicks off allergy season in a big way. What common environmental factor contributes most to clogged HVAC filters and IAQ complaints during this month?**

Answer: Cedar and oak pollen

Spring allergy season in Fort Worth is notorious for tree pollen, especially oak and cedar trees. These fine particles are small enough to clog filters quickly and trigger indoor air quality (IAQ) complaints, especially in buildings without upgraded filtration or regular maintenance. MERV-13 or higher filters are often recommended during peak pollen months.

**Q4: The Kimbell Art Museum in Fort Worth is internationally recognized for both its architecture and its thoughtful building systems. What unique design feature does its HVAC system incorporate to protect priceless artworks while maintaining comfort?**

Answer: Precision humidity and temperature control integrated into the building's vaulted concrete structure.

The Kimbell Art Museum's vaulted concrete design isn't just aesthetic - it also plays a role in thermal mass regulation. The building is equipped with a sophisticated HVAC system that ensures tight control of humidity and temperature, essential for preserving delicate artworks. The system is subtly integrated into the architecture to maintain the museum's minimalist design while delivering museum-grade environmental control.