

THE THERM



MONTHLY NEWSLETTER

Fort Worth
Chapter

NEXT

CHAPTER

MEETING

SEPTEMBER 18, 2019

11:30 AM



PETROLEUM CLUB

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CONTRIBUTE !

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// THE CHAPTER HAS A NEW WEBSITE!

The chapter has implemented a new website powered by Star Chapter. Star Chapter has become a best practice for ASHRAE chapters to help streamline communications and operations.

Check it out and tell us what you think!

Fred Berry,

EAST REGION CHILLER PRODUCT MANAGER - JCI/YORK

// PRESENTATION TOPIC

Optimizing Chilled Water Systems

// SUMMARY

Mr. Berry will focus his presentation on how to achieve the best performance of a chiller plant. This will include the relationship between chillers and their parasitic systems needed for proper running plants such as cooling towers, pumps, and controls. Mr. Berry will also include the importance of service and maintenance of chillers and supporting equipment needed to continually operate at their peak performance.

// THIS MONTH'S PRESENTER



WANT YOUR COMPANY'S LOGO FEATURED HERE?

Become an ASHRAE Fort Worth Chapter Sponsor for the 2019-2020 year and help support ASHRAE research! Contact our chapter research promotion chair, [Saul Martinez](#), for information.



PRESIDENT'S MESSAGE

// Allen Grammer, PE



Hello all!

First, I would like to thank our August speaker, Ben Harris, for the fantastic presentation. It was insightful, interesting, and a bit terrifying all at once. Our first meeting was very well attended, and I hope we can continue the same level of program quality and community in all of our meetings moving forward.

Today, I'd like to talk a bit more about one of my primary goals for the year – Student Engagement. As I mentioned last month, the goal is to help secure a positive future for the Chapter by increasing student membership and student engagement at our local universities. As Ian will explain later in his Chair Report - We have already kicked off our student activities at the University of Texas at Arlington (UTA) with a meeting last week, and two past Chapter Presidents (Tony Finch & Cody Pace) are assisting the students with their annual ASHRAE design competition. We have also budgeted \$2,000.00 to distribute scholarships to local university students this chapter year.

Still to come, our ASHRAE Chapter needs to help organize the TCU Chapter of ASHRAE for the year, and also begin coordinating the next UTA Chapter meeting. Also, we need to begin coordinating with our local elementary and high schools to plan engineering and career day presentations.

As you can see, there is still so, so much more to do - **and you can help.**

1. We need contacts with local elementary and high-school teachers and staff, interested in hosting engineering and career day presentations.

PRESIDENT'S MESSAGE

2. We also need volunteers to give those presentations. Career day presentations at a local K-12 or high-school are a great opportunity for younger engineers and EITs to practice their public speaking and presentation skills, while simultaneously helping a group of kids see the value in pursuing STEM fields. We can even provide the presentation slideshow! Because of our volunteering work, those kids may become ASHRAE members themselves one day.
3. We need recent graduates from UTA and TCU to volunteer as a chapter representative. This representative would attend their Alma Mater's ASHRAE chapter meetings, each month, and help provide guidance when possible. This is a great way to stay connected to your professors and classmates as well.

If you have any school contacts or are interested in volunteering in a student activities capacity, I encourage you to reach out to myself or Ian Bost (ibost@bhbinc.com) for more information.

As always - you can help to make this year great by staying active in the chapter, inviting coworkers and colleagues to events, and letting me know if you have any questions, comments, or concerns.

Sincerely,

Allen Grammer, P.E., President
ASHRAE Fort Worth
agrammer@bhbinc.com



FALL GOLF CLASSIC

// NEVER TOO EARLY TO PLAN AHEAD!



Now that everyone's had a great summer break, our annual FALL golf classic is scheduled for Monday afternoon, October 7th, 2019! Come join fellow ASHRAE members for the tournament at Bear Creek Golf Club in Dallas. More details coming soon.

Be sure to mark your Calendars!

JOINT REFRIGERATION TOUR AND YEA HAPPY HOUR

// TAKE A LOAD OFF!

Swing by:

Panther Island Brewing
in the Stave Room

501 N. Main St.
Fort Worth, TX 76164

Wednesday, September 25th, 4:30 - 7:30 pm

Sponsored by DXS! Thanks guys!



NORTH TEXAS FACILITIES EXPO

// ASHRAE Fort Worth is Co-Sponsoring Event

ASHRAE Chapter members will receive free admission to the expo, come check it out!

[REGISTER](#)



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SEPTEMBER 25 & 26, 2019
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 (FORMERLY ARLINGTON CONVENTION CENTER)

NORTH TEXAS

ASSOCIATION OF ENERGY ENGINEERS

36TH ANNUAL NTAEE ENERGY CONFERENCE

// North Texas Association of Energy Engineers

2019 Energy Conference venue:

Dave & Buster's

25285 Rio Grande Blvd.
Euless, TX 76039

Wednesday, October 17, 2019, 8:00 am - 4:00 pm

Click the web link to check out speakers and topics as well as register:

[REGISTER HERE](#)



// ASHRAE 2020 Winter Meeting and AHR Expo

Conference venue:

Hilton Orlando

6001 Destination Parkway
Orlando, FL 32819

February 1-5, 2020



Click the web link to register for the ASHRAE Winter Meeting:

[REGISTER HERE](#)

Click the web link to register for the AHR Expo:

[REGISTER HERE](#)



ENERGY STAR CERTIFICATION

// Energy Star Updated

The Energy Star building rating system is now active again after an extensive technical review of the new benchmark data provided by 2012 Commercial Building Energy Consumption Survey (CBECS).



Click the web link to see details on the new Energy Star building metrics:

UPDATED ENERGY STAR METRICS

Note that dates for completing 2019 Energy Star certifications have been extended, details can be found here:

CERTIFICATION DEADLINES EXTENDED

ASHRAE RELEASES NEW HVAC APPLICATIONS HANDBOOK

// 2019 ASHRAE Handbook Update

In case you missed it back in July, check out the new 2019 publication of the HVAC Applications Handbook. Access to free ASHRAE Handbooks is one of many ASHRAE membership perks!

The 2019 version of the Applications Handbook includes 3 new chapters in addition to substantive updates to several other chapters:

NEWS RELEASE ON 2019 ASHRAE HANDBOOK

VIEW THE NEW HANDBOOK ON THE ASHRAE TECHNOLOGY PORTAL

STATE OF THE CHAPTER SPOTLIGHT: OFFICER AND CHAIR REPORTS

// THE 2019 - 2020 ASHRAE CHAPTER YEAR

A full docket of events and technical topics are planned for this year so there will be plenty of opportunities to connect with other ASHRAE members, earn PDHs and learn something new. We look forward to seeing you at chapter events this year!

Below you'll find the monthly reports from chapter officers and chairs.

// RESEARCH PROMOTION - Saul Martinez

I am planning on attending the Centralized RP Training in Chicago this Friday and Saturday.

We have secured six chapter sponsors and are looking to get more. I will be following up with more prospects as well as tabulating the funds from our current sponsors so we can write a check to Society. So far our sponsors have pledged \$24,750.

Our annual fall golf tournament is being held next month with proceeds to Research and we are planning a game night in January with proceeds to Research which will include a poker tournament, a video game tournament, and board games to maximize involvement from our membership.

// REFRIGERATION - Dan Torres

We are holding a refrigeration tour at Panther Island Brewing on September 25th, come join us! I will be coordinating with Van Cashen in the coming month to see about standardization of the spring clay shoot.

// CTC CHAIR - Sonalie Johnson

We had our first meeting of the year last month and received great feedback! We're thankful to Ben Harris for getting the year off to a strong start. This month, I've spent time ironing out logistics for the upcoming chapter meetings and creating FW ASHRAE gifts for speakers who generously provide us with their time and knowledge. We've also focused on coordinating with Fred Berry to present on chilled water plant optimization at our upcoming September 18th meeting. We're excited to announce that Fred will be joining us to share his 30+ years of experience in the industry. Looking forward to seeing everyone there!



STATE OF THE CHAPTER SPOTLIGHT: OFFICER AND CHAIR REPORTS

// Sustainability - Ryan Edwards

Our sustainability goals for this year are as follows:

- Two sustainability-oriented events (one in the spring, one in the fall)
- Write an extended Therm article about a sustainability topic
- Coordinate with CTTC and YEA for morning tech sessions

// GOVERNMENT ACTIVITIES - Van Cashen

I'm planning on inviting local city officials to ASHRAE chapter meetings.

// SPECIAL EVENTS - Sean Rath

Don't forget to sign up for the Fall Golf Tournament!

// CHAPTER COMMUNICATIONS CHAIR - Connie Staudt

I've been working hard on the new chapter website hosted by Star Chapter. Be sure to check out the new website! You can now register online for upcoming meetings and events easily! Click on the REGISTER NOW link for events and sign in with your ASHRAE login information. If you do not remember your password, enter your email address that is registered with ASHRAE, click on the Forgot username/password, and you can reset your password. Also, check out our Facebook and LinkedIn sites, we update those regularly!

// CHAPTER MEMBERSHIP PROMOTION - Patty Parrish

Please help me welcome the following new members to the chapter this past month!

- Travis Clayton
- David Fultz
- Jonathan Gibson
- Austin Smith



STATE OF THE CHAPTER SPOTLIGHT: OFFICER AND CHAIR REPORTS

// YEA CO-CHAIRS - Jacob Cantu & Whitney Lampe

Come join us at the chapter YEA happy hour this month, see the "Upcoming Events" section for details!

// STUDENT ACTIVITIES (K-12 AND HIGHER ED) - Ian Bost

Higher Ed

- We had a kickoff meeting today (9/5/19) with our SA Student Chapter at University of Texas Arlington (UTA) involved with the ASHRAE design competition. We have a past Chapter President leading the charge and the student (Tony Finch also a graduate of UTA) and another past Chapter President (Cody Pace) assisting the students in the Trace inputs and modeling efforts.

Next Tasks:

- Organize a SA Student Chapter Meeting with the TCU Chapter.
- Organize another SA Student Chapter Meeting with the UTA Chapter.
- Looking at coordinating a joint effort with Texas Society of Professional Engineers for PE Week.
- Reach out to the new student members and invite them to join our monthly luncheons.

K-12

- We are currently gathering teacher contacts to assist them in providing presenters on their Career Days.

Next Tasks:

- Develop a presentation for Career Days.
- Gather list of ASHRAE Members to present at Career Days.
- Looking at coordinating a joint effort with Texas Society of Professional Engineers for PE Week.



BOARED OF GOVERNORS MEETING MINUTES

// MEETING MINUTES

//LOCATION & DATE

Meeting Date: 8/7/2019
 Time: 3:30 - 4:00pm
 Location: BHB office and conference call

// ATTENDANCE

Allen Grammer - BHB (President)
 Scott West - HFA (President-Elect)
 Jeremy Snyder - BHB (Secretary)
 Ashley Fiddelke - HTS (Treasurer)
 Saul Martinez – BHB (BOG/RP Chair)
 Dan Merkel - TAS (BOG)
 Connie Staudt - CTS (BOG/Communications Chair)



CHAPTER SECRETARY
 //JEREMY SNYDER

//CALL TO ORDER: 3:34 pm

//DISCUSSION:

The meeting was called because there had been discussion on Slack regarding raising the prices of lunches, and a vote had been cast. Connie had asked that we had a conference call to further discuss this topic and revote as her and Dan had not been privy to the conversation on Slack and did not get the chance to be part of the discussion.

At the beginning of the meeting Allen introduced that the lunches ran a significant deficit last year, and to keep lunches at the Petroleum Club, it would be necessary to raise the price of lunches. The structure of pricing for members and non-members, and pre-registers vs. pay at the door needs to be determined.

Connie expressed her opinion that it is not fair to the chapter members to have to pay the same price as non-members who regularly come to meeting, and it would be better to offer a discount for paying chapter members.

Dan presented that chapter membership is to be driven by the chapter, and that we are not to drive society membership though chapter membership.

Allen presented the concept that chapter membership is \$35, so in a 10 meeting ASHRAE year, the discount for a chapter paying member to a non-member should be \$3.50 per meeting.

Scott asked if it is possible to be a chapter member and not a society member. Dan noted that record keeping becomes the issue in that scenario, and after much discussion, it was determined that it is not worth pursuing the promotion of chapter membership and not society membership as its unclear if society would permit it, and it would be cumbersome in bookkeeping as well as accessing other ASHRAE portals, as Ashley noted that with Starchapter, our ASHRAE account information is automatically uploaded onto it. Further discussion will also need to take place regarding the issue with Dallas chapter members coming to multiple Fort Worth meetings, and not paying Fort Worth Chapter dues. For now, the MP chair will need to reach out to these individuals.

AUGUST 7, 2019

BOARD OF GOVERNORS MEETING MINUTES...CONT...

//DECISIONS

In the upcoming year, the price structure for monthly meetings shall be:

- \$275.00 for a chapter member to pay for all 10 lunch meetings for the ASHRAE year
- \$30.00 for a chapter member who registers on Starchapter before the meeting
- \$33.50 for a non-chapter member who registers on Starchapter before the meeting
- \$35.00 for a chapter member who pays at the door
- \$35.00 for a non-chapter member who pays at the door

All BOG voted aye, so the motion passed unanimously.

//ADJOURNMENT: 4:02 pm

// MEETING MINUTES



BOARED OF GOVERNORS MEETING MINUTES

// MEETING MINUTES

//LOCATION & DATE

Meeting Date: 8/21/2019

Time: 10:00 - 11:00am

Location: Petroleum Club, Level 40

777 Main St, Fort Worth, TX 76102

// ATTENDANCE

- Allen Grammer
- Scott West
- Jeremy Snyder
- Ashley Fiddelke
- Saul Martinez
- Dan Merkel
- Connie Staudt
- Dan Torres
- Sonalie Johnson
- Ryan Edwards
- Van Cashen
- Sean Rath
- Jacob Cantu
- Tony Finch



CHAPTER SECRETARY

//JEREMY SNYDER

//CALL TO ORDER: 10:03 am

//DISCUSSION:

Allen covered the upcoming events per the calendar shown below.

Chapter Meetings:

August 21, 2019 – Storm Shelter Design

September 18, 2019 – How to Make a Chiller Last 50 Years (Speaker Lined Up)

October 16, 2019 – HVAC in Other Industries (Speaker Lined Up)

November 20, 2019 – Chiller Plant Efficiency (DL Lined Up)

December 11, 2019 – Ethics

January 15, 2020 – How Controls Works (Meeting plus Seminar Topic)

February 19, 2020 – Coordination with Electrical - Building Designs with Generators

March 18, 2020 – How to Make the Best of Existing Equipment

April 15, 2020 – Acoustics (Heard of it?)

May 20, 2020 – The Future of Energy Standards (Meeting plus Standards Seminar Topic)

Connie requested that once bio's are available for the speakers, please send them to her for communications.

BOARD OF GOVERNORS MEETING MINUTES...CONT...

Other Events:

- September 27, 2019 – Refrigeration Tour
- October 7, 2019 – Fall Golf Tournament
- November 14, 2019 – Product Demo & Career Fair
- December 12, 2019 – Rock Climbing / Yoga
- January 23, 2020 – Poker / Super Smash Brothers Tournament
- February 27, 2020 – Axe Throwing & Refrigeration Tour
- March 28, 2020 – Cowtown Cleanup (Sustainability Event, exact date TBD)
- March 23, 2020 – Spring Golf Tournament
- April 2, 2020 – Product Demo / Career Fair (TBD)
- May 8, 2020 – Shotgun Clay Shoot
- June 17, 2020 – Past President's Night

//OFFICER AND CHAIR REPORTS:

President

- ◇ Review Calendar of Events
- ◇ Chair Updates – Thanks!
 - Chair reports are to happen for each therm, at the beginning of each month.
 - Historian has retired, so if anyone has someone in mind, please reach out to Allen. Review of Historian goals – just need to find someone.
 - Reminder to report to RVCs
 - Chapter meetings are lined up until January. Dan to reach out to BTL to establish a speaker.
 - Need to look at seminars and what would be good to tie into with a monthly meeting.
- ◇ PAOE Points
 - Reminder to stay on top of point submission to Allen each month
- ◇ Critical Facilities Summit
 - Upcoming event – offered discount for members. To present in the Therm.
- ◇ PO Box Reimbursement - \$122.00.

President-Elect

- ◇ Motion to add the critical facilities to the Therm made by Scott. Seconded by Jeremy. It passed with 4 ayes, three votes sustained.
- ◇ Reminder that Therm to be published at the beginning of each month, so please have chair reports to Scott and RVC at the beginning of the month.
- ◇ Chair reports don't have to be fancy, but make sure you're staying in communication. Recommended to call or email the RVC to establish a better connection with the RVC if you want to win an award.
- ◇ AHRI expo and winter meeting is in Orlando. Early in February. Reminder to start booking hotels right now. Look to organize a get together for any Fort Worth people going. Make an announcement during the meeting. PAOE points available for chapter member attendance

BOARD OF GOVERNORS MEETING MINUTES...CONT...

Secretary

- ◇ Review of BOG meeting to change the pricing of monthly meetings. Will make motion on slack for the BOG pricing meeting minutes.
- ◇ Ashley makes a motion to approve annual planning meeting minutes, Allen seconds. Passes unanimously.

Treasurer

- ◇ Budget. Need to review to vote on.
 - Review of different items. CTC might be light, but can look at how it evolves. "Unassigned funds" is the discretion fund.
 - Special events for RP needs to equal out to 0.
 - With this provision of changing the RP, the budget was motioned by Saul to approve, seconded by Dan. Vote passed unanimously.
- ◇ Derek Jones - Refund

RP Chair

- ◇ Full Circle
 - All BoG to donate \$100 traditionally, and its \$150 if you want the coin. If you're a committee chair and want to donate, you can and we will get the Full Circle plus for the chapter.
 - Company full circle increased as well. Saul unsure of exactly what the company price is, but believe it increased to \$300.
- ◇ RP Training Reimbursement - ~\$200
 - Saul to go to Chicago for RP training. Should be lower than \$200.
- ◇ RP event in January for a Nintendo/Video game event. Needs people donating their systems if available.
- ◇ HTS is now a gold sponsor for the year. Otherwise it's the same sponsors as last year at the same levels other than Trane is not a platinum sponsor this year.

BOG

- ◇ Nothing to discuss

CTIC

- ◇ DFW Airport – December Meeting Location? To discuss with Patty. She is working with a contact to get the location at the airport.
- ◇ Panel Speaker Volunteers? For the How to make the best of existing equipment. Looking for panel members, so reach out to Sondalie if you know someone.
- ◇ Allen Ash for the September meeting is concerned about the content of next Chapter meeting being viable. To further discuss with CTIC to determine how to make the presentation more robust. Maybe look at more of a failure mode outside of just IOM. Could go into what you can do wrong to make a chiller last 5 or 10 years.
- ◇ Speaker Gift Approval / Reimbursement. Need to revisit once we get a better of idea of how it looks and for pricing.
- ◇ Need to look more into morning seminars for younger engineers. Need to find presenters for seminars before the monthly meetings. Geared more towards engineers starting their careers. More discussion to take place offline. Maybe a couple times a year. Create a Fort Worth set of DLs from these speakers as outlets for future lectures. Reach out to Sondalie or Allen if you have ideas.

BOARD OF GOVERNORS MEETING MINUTES...CONT...

YEA

- ◇ Last year each month was very reactive. This year they've had a meeting to plan everything and be proactive about reaching out to sponsors.
- ◇ Reaching out to Dallas for joint meeting – no response yet.
- ◇ Host axe throw tournament – upcoming.
- ◇ Look at doing a White Elephant gift exchange in December. Martin House and Rahr were successes, so looking to do that again.
- ◇ Late on getting to the leadership training for this year. Will look at attending next year. Look to revisit closer to November or December.
- ◇ Arts goggle to take place in October. Could look at doing a meetup there.

Student Activities

- ◇ Not present.
- ◇ K-12 – School Contacts – Spouses that are teachers?
- ◇ Send contact information to Ian.
 - Jeremy Snyder
 - Saul Martinez
 - Ashley Fiddelke – Mansfield ISD
 - Ryan Edwards
- ◇ K-12 – Volunteers – To actually visit schools for career days
 - Reach out to Ian or Allen
- ◇ There is a STEM program now in FWISD, still somewhat new.
- ◇ College – Volunteers – Recent Grads to be Chapter Liaisons
 - Reach out to Ian and Allen
- ◇ To reach out to UTA for design competition

GAC

- ◇ Nothing new to report

Membership Promotion

- ◇ Saul sat in on an informal call. You can move from associate to member in ASHRAE if you have 12 years of experience. Experience isn't just in the industry, but counts with internships and undergrad education.
- ◇ More 'members' increases the reputation of our chapter.
- ◇ Licenses also count for experience.

Sustainability

- ◇ Tour of TCC with K-12 folks upcoming.
- ◇ Cowtown cleanup coming in March.

BOARD OF GOVERNORS MEETING MINUTES...CONT...

Refrigeration

- ◇ Tour Destination Options
 - Panther Island, Wild Acre, the Collective Brewing Project are three probable destinations. Anyone have insights or connections, let Dan know.
 - Collective Brewing is a bit small. Panther Island was a good option.
 - Looking at 4-7 pm on a Thursday for better turnout. Looking at the 26th of September as an option.

CCT/Webmaster

- ◇ Star Chapter Update
 - Website is up and live. Next month meeting should be better for registration. Starchapter has lots of abilities and features that need to be explored. Track membership, name badge print outs, etc.
- ◇ Newsletter
- ◇ Pre-Registration

Historian

- ◇ Not present

Events/Activities

- ◇ Covered already, nothing new to report.

Awards

- ◇ Awards were submitted last CRC, but were the awards were approved? The list of people that got awards received this summer did not have the people submitted. Need to talk to RVC.
- ◇ Distinguished Service Award to A.B. Blalock – to be recognized in the Therm upcoming.

Meetings to take place in between so that chairs don't have to be present at each meeting. Try to limit the meeting time for volunteers.

Announcements to be about the website registration, increased meeting costs, and winter meeting, and refrigeration tour upcoming.

//ADJOURNMENT: 11:11 am



// CHAPTER OFFICERS

OFFICERS/COMMITTEES	NAME	EMAIL
CHAPTER PRESIDENT	Allen Grammer	agrammer@bhinc.com
CHAPTER PRESIDENT ELECT	Scott West	scott.west@hfa-ae.com
CHAPTER SECRETARY	Jeremy Snyder	jsnyder@bhinc.com
CHAPTER TREASURER	Ashley Fiddelke	ashley.fiddelke@irco.com
BOARD OF GOVERNORS	Connie Staudt	connie@ct-supply.com
BOARD OF GOVERNORS	Daniel Markel	dan.merkel@texasairsystems.com
BOARD OF GOVERNORS	Saul Martinez	smartinez@bhinc.com
CHAPTER RESEARCH PROMOTION CHAIR	Saul Martinez	smartinez@bhinc.com
CHAPTER REFRIGERATION CHAIR	Dan Torres	dan.torres@dxseng.com
CHAPTER TECHNOLOGY TRANSFER	Sonalie Johnson	sonalie.johnson@texasairsystems.com
CHAPTER SUSTAINABILITY CHAIR	Ryan Edwards	ryan.edwards@freese.com
CHAPTER GRASSROOTS GOVERNMENT CHAIR	Van Cashen	vmc@freese.com
CHAPTER SPECIAL EVENTS CHAIR	Sean Rath	srath@bhinc.com
CHAPTER SPECIAL EVENTS COMMITTEE (GOLF)	David Muzzy	d.muzzy@tcu.edu
CHAPTER COMMUNICATIONS CHAIR	Connie Staudt	connie@ct-supply.com
CHAPTER MEMBERSHIP PROMOTION CHAIR	Patty Parrish	patty.parrish@us.belimo.com
CHAPTER HISTORIAN	TBD	
CHAPTER YEA CO-CHAIR	Jacob Cantu	jcantu@bartosindustries.com
CHAPTER YEA CO-CHAIR	Whitney Lampe	whitney.lampe@jci.com
CHAPTER STUDENT ACTIVITIES CHAIR	Ian Bost	ibost@bhinc.com
K-12 STEM CHAIR	Ian Bost	ibost@bhinc.com
CHAPTER HONORS & AWARDS	Tony Finch	tonyf@texasairsystems.com
CHAPTER WEBMASTER	Connie Staudt	connie@ct-supply.com
CHAPTER AUDITING COMMITTEE	Richard Watters	rwatters@bhinc.com



// TREASURER SUMMARY

Below you'll find the chapter accounting transactions for the month of August 2019.



Treasurer's Report (by Ashley Fiddelke)

Starting Balance (8/1/19): **\$19,747.01**

Debits

8/19 Star chapter fee \$100.00

8/21 Luncheon \$2,877.00

Subtotal: **\$2,977.00**

Credits

08/07 Eventbrite Past Presidents night \$864.24

8/07 ASHRAE Dues \$840.00

08/20 Paypal Season Ticket Holders \$1,925.00

08/20 Paypal pre-register lunches \$2,144.76

08/22 Square Lunches Pay at the door \$280.00

08/22 Square Lunch season ticket \$275.00

08/22 Square Platinum Sponsorship \$7,702.50

\$14,031.50

New Balance as 8/31/19 **\$30,801.51**



MONTHLY MEETING CALENDAR 2019/2020

// YEAR AT A GLANCE

FALL

August 21, 2019	Storm Shelter Design
September 18, 2019	Optimizing Chilled Water Systems
October 16, 2019	HVAC in Other Industries Presenter - Mike Tiedeman
November 20, 2019	Primary Heating/Cooling Plant Strategies OR Building Automation Master Planning ASHRAE Distinguished Lecturer - James Vallort
December 11, 2019	The (un)Ethical Engineer Presenter - Devin Abellon Joint meeting with ASHRAE Dallas Chapter at DFW Airport

SPRING

January 15, 2020	How Controls Work (Meeting plus Seminar Topic)
February 19, 2020	Coordination with Electrical - Building Designs with Generators, Capacitor Banks, Harmonics, etc.
March 18, 2020	How to Make the Best of Existing Equipment Panel discussion
April 15, 2020	Acoustics (Heard of it?) Planned joint meeting with AIA
May 20, 2020	High Performance Building Design - What the Future Holds ASHRAE Distinguished Lecturer - Thomas Lawrence



SPECIAL EVENT CALENDAR 2019/2020

FALL

September 25, 2019	Refrigeration Tour
October 7, 2019	Fall Golf Tournament
November 14, 2019	Product Demo & Career Fair
December 12, 2019	Rock Climbing / Yoga

SPRING

January 23, 2020	Poker / Super Smash Brothers Tournament
February 27, 2020	Axe Throwing & Refrigeration Tour
March 28, 2020	Cowtown Cleanup (Sustainability Event, exact date TBD)
March 23, 2020	Spring Golf Tournament
April 2, 2020	Product Demo & Career Fair (TBD)
May 8, 2020	Shotgun Clay Shoot
June 17, 2020	Past President's Night



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Fort Worth ASHRAE
P.O. Box 344
Fort Worth, TX 76101

MESSAGE FROM THE EDITOR:

Thanks for reading this far! If you would like to contribute to the Therm, we are always accepting interesting articles, interviews, pictures, and suggestions for improvement!

Let us know what you'd like to see!

Thanks!
Scott West, P.E., President-Elect
ASHRAE Fort Worth
scott.west@hfa-ae.com



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