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ASHRAE Houston Chapter's

THE HOT AIR RECORDER

80th Volume No. 5

December

Sun	Mon	Tue	Wed	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
31						



DECEMBER CHAPTER MEETING

There will be no December meeting.

JAN. 11

JANUARY CHAPTER MEETING

Join ASHRAE Houston from **11-1PM** on **Jan.11th** Be on the lookout for upcoming meeting information. We will be sending it our via email.

Dukessa Event Center!

Location: 2840 Chimney Rock Road, Houston, TX 77056

FEB. 15

Poker Tournament - Feb. 15, 2024

SIGN UP NOW for the **2024 Poker Tournament** hosted at Roessler Equipment on **February 15th**. Registration is open on the ASHRAE Houston website or here.

NOV. 30

YEA HAPPY HOUR - Sponsored by McMillan James

Location: Kirby Ice House Memorial - 1015 Gessner Rd.
Date / Time: November 30th 4 - 7PM
Co – Hosted with AEI (Architectural Engineering Institute)

ASHRAE®

SEASON PASS

8 Regular Chapter Meetings

$280 Value for $215

CLICK HERE TO BUY

FALL GOLF TOURNAMENT WAS A SUCCESS!!



THANK YOU TO ALL SPONSORS & VOLUNTEERS

LINK TO SPONSORS

ASHRAE® CHICAGO 2024 WINTER CONFERENCE AND AHR EXPO

JANUARY 20-24, 2024

CLICK HERE FOR INFO

2023-2024 Tabletop Sponsorship

$600



Sponsor the monthly Chapter Luncheon! Click HERE for more info

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ASHRAE Houston Chapter Presents:

ANNUAL Fall GOLF TOURNAMENT

Thank you to our Fall Golf Tournament Sponsors:

Lunch Sponsor

TDIndustries

Tailgate Sponsors

COUGAR USA The Lone Star in Water Control

TEXAS AIRSYSTEMS

Snack Sponsor

DELTA T EQUIPMENT

Gift Bag Sponsor

AWACO

Koozie Sponsor:

S&S EQUIPMENT

Tiger Hole Sponsor

CDI CUSTOM CURB ADAPTERS CHARLOTTE ▪ DALLAS ▪ MINNEAPOLIS ▪ SEATTLE

Closest to the Pin & Longest Drive Sponsor

Tex-Airfilters AIR Relief Technologies, Inc.

Putting Contest Sponsor

ROESSLER EQUIPMENT COMPANY, INC. Serving Houston Since 1963

Tee Box Sponsors:

HTS
DAIKIN Willbanks
Page/
Envirotech Mechanical Systems HVAC Contractors
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PRESIDENT'S MESSAGE

Hope this finds you well and that you had a good Thanksgiving holiday. November was a success not only with our distinguished lecturer Devin Abellon presenting our annual Ethics Program but also for our Fall Golf Tournament. The weather was amazing, and everyone had a great time! Special thanks to Houston Chapter Vice President & RP Chairman Nick Janssen and the many volunteers who hosted this event.

As we close out the end of year … Please don't forget to consider ASHRAE for your end of the year donations. The Houston Chapter is blessed with very giving sponsors. We thank you for your continued support!

https://www.ashrae.org/about/support-ashrae

There is no December meeting for the Houston Chapter as we give everyone a chance to celebrate the holidays with their family, friends and attend other professional activities.

As we look forward to the New Year … The 2024 AHR Expo will be held January 20-24 at Marriott Marquis McCormick Place in Chicago, IL. I hope to see you there! Advanced registration is going on now:

https://www.ashrae.org/conferences/2024-winter-conference-chicago/2024-registration

Now might also be a good time to get one of the ASHRAE certifications especially with the discount being offered in December and January. Check out one of these and consider getting certified:

Exciting news! Beginning Dec. 1 through Jan. 31, applicants may use the discount code NEWYEAR2024 to receive a 25% discount on application for any of ASHRAE's six (6) building design or building performance certifications.

Here's how the discount works:

1. Apply anytime Dec. 1 - Jan. 31 using the Discount Code: NEWYEAR2024
2. Take your certification exam at any of ASHRAE's new 1,000+ test center locations worldwide

Our next meeting will be on January 11th at 11:00 AM at Dukessa. Watch your email and our website for information.



Catherine Tinkler
Houston ASHRAE President
2023-2024

From Greg and me, and all the ASHRAE Houston Chapter committee chairs and officers, we wish you a Merry Christmas and Happy Hannukah!

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LAST MONTH'S MEETING

GET TO KNOW THE SPEAKER:

DEVIN ABELLON, P.E

VP OF ENGINEERING SALES FOR PYURE DYNAMIC PROTECTION



Devin Abellon, P.E. is the Vice President of Engineering Sales at The Pyure Company. He has 29 years of experience in the HVAC and plumbing industries with a focus on high-performance and sustainable building design and construction. He holds a Bachelor of Science degree in Mechanical Engineering from the University of California at Santa Barbara and is a registered professional engineer in California and Arizona. He is an active member of ASHRAE, and has served at the chapter, regional and society levels, most recently serving on the ASHRAE Board of Directors as the 2020-23 Region X Director and Regional Chair.

TOPIC : ETHICS IN OUR INDUSTRY

We are pleased to welcome ASHRAE Distinguished Lecturer Devin Abellon, VP of Engineering Sales for Pyure Dynamic Protection, to our November meeting to present on Ethics in our industry. PDH's for every presentation are provided, and this is a great way to get your ethics credit for your PE license!

SEASON PASSES TO ALL CHAPTER MEETINGS!!!

This year we are also offering a Season Pass ticket to 8 ASHRAE Houston Chapter meetings for chapter members. **Save $65 on chapter meetings today!** You will still need to register for each meeting and pay $0!

If you're interested in this reduced rate, one time purchase please buy a SEASON PASS HERE prior to registering for this meeting.

CLICK HERE TO REGISTER

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NATIONAL NEWS



ASHRAE CHICAGO 2024 WINTER CONFERENCE AND AHR EXPO

REGISTRATION | TECHNICAL PROGRAM | COMMITTEE MEETINGS | TRAVEL | SPONSOR

Join us in January !!

REGISTER VIEW SCHEDULE

>> Check out the registration page to see what's available for in-person and virtual registration options.



Join us in Chicago!

ASHRAE is looking forward to convening in Chicago at the Marriott Marquis McCormick Place January 20-24, 2024

... Learn more



Join us from your home or office!

Virtual options such as up to 10 livestreamed technical sessions, technical session recordings and downloadable conference papers are available ... Learn more

The ASHRAE awards listed below have an upcoming nomination deadline of December 1. All nominations and questions can be sent directly to Rhiannon Masterson - RMasterson@ashrae.org, and additional information can be found at **www.ashrae.org/honors**.

Also, feel free to share this **quick video** that provides an overview of these awards – you can post it to social media, your chapter website or your chapter newsletter!

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RESEARCH PROMOTION

HOUSTON ASHRAE 2023-2024 RESEARCH PROMOTION FUNDRAISING EVENTS:

SPORTING CLAY TOURNAMENT	FALL GOLF TOURNAMENT	SPRING GOLF TOURNAMENT	POKER TOURNAMENT
9.05.2023	11.16.2023	03.27.2024	02.15.2023
Greater Houston Sports Club	The Golf Trails of The Woodlands		Roessler Equipment

2023-2024 ASHRAE ANNUAL SPONSORSHIP OPPORTUNITIES:

PLATINUM

$10,000

- Signage at each event as a Platinum Sponsor and ASHRAE Partner
- Recognition on the ASHRAE Houston website as a platinum sponsor with a link to your website
- (1) LinkedIn campaign for a product of your choosing
- ASHRAE Partner recognition at the annual conference
- One team (of 4) at both Golf Tournaments+ first buy ins for six (6) participants at the Poker Tournament
- Admission for four (4) to the Past President night
- Tailgate sponsor at the Golf Tournaments

CONTRIBUTE HERE

GOLD

$7,500

- Signage at each event as a Gold Sponsor
- Recognition on ASHRAE Houston website as a Gold Sponsor
- (1) LinkedIn campaign for a product of your choosing
- One team (of 4) at the Golf Tournament of your choice + first buy ins for four (4) participants at the Poker Tournament
- Hole sponsor signage at both Golf Tournaments
- Admission for two (2) to the Past President night

CONTRIBUTE HERE

SILVER

$5,000

- Signage at each event as a Silver Sponsor
- Recognition on the ASHRAE Houston website as a silver sponsor
- Two(2) participants at (1) Golf Tournament
- Hole sponsor signage at the both Golf Tournaments
- Table top display at (1) Golf Tournament
- First buy in for two (2) participants at the Poker Tournament
- Admission for two (2) to the Past President night

CONTRIBUTE HERE

BRONZE

$2,000

- Signage at each event as a Bronze Sponsor
- Recognition on the ASHRAE Houston website as a bronze sponsor
- Hole sponsor signage at the golf tournament of your choice
- Admission for one (1) to the Past President night

CONTRIBUTE HERE

CONSULTING ENGINEER

$1,000

- Available only to consulting engineering firms
- Signage at each event as a Consulting Engineer Sponsor
- 1) LinkedIn campaign for a product of your choosing
- Recognition on the ASHRAE Houston website as a consulting engineer sponsor
- Inclusion for free in the ASHRAE Houston directory
- Free job opening postings on the ASHRAE Houston website and HAR
- Hole sponsor signage at the golf tournament of your choice

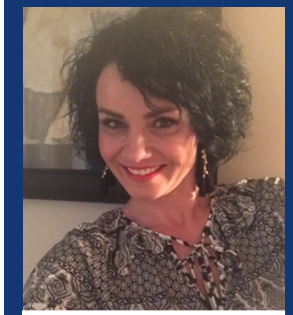
CONTRIBUTE HERE

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MEMBERSHIP

2023-2024 MEMBERSHIP PROMOTION COMMITTEE



Shannon Yancey

Check out these resources to support our Membership Promotion initiatives

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

GET YOUR BOSS ON BOARD

Most employers are happy to support involvement in a professional society like ASHRAE. Below are sample emails for new members looking to join, or current members looking to renew.

Support My ASHRAE Membership

Support My ASHRAE Membership Renewal

Please welcome our newest member: Martin Dehlinger, Ahmed Khader, Samuel Wong, Luis Alberto Gonzalez, Darrin Stanton, Jordan Powdrill

Join or renew (simple 4 step process) through **https://www.ashrae.org/join**
If you have any questions, contact Shannon Yancey at (832) 523-6619 or Shannon.Yancey@Caleffi.com
For more info: **https://www.ashrae.org/communities/regions**

TREASURER



23-24 Treasurer: Heather Camden

✓ Chapter is in good financial standing

Books have been transferred from Nick Janssen to Heather Camden

TAX Last year's taxes are filed

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YEA



YEA Participation Survey (2023-2024)

WE WOULD LIKE TO HEAR FROM YOU CLICK **HERE** TO COMPLETE A QUICK SURVEY ABOUT WHAT YOU'D LIKE TO SEE FROM YEA THIS YEAR

NOVEMBER HAPPY HOUR

November 30th

CO-HOSTED WITH AEI

SPONSORED BY MCMILLAN JAMES

Kirby Ice House Memorial

YEA SPONSORS (2023-2024)

WE ARE SEEKING SPONSORS TO HELP US SUPPORT OUR COMMITTEE

IF INTERESTED PLEASE CLICK **HERE**

YEA SPONSORS NEEDED

Join us at our next event!

Want to Sponsor?

Reach out to Pablo Marin via email

How to Sponsor?

After emailing Pablo, pick a date, time and location so that we can post in upcoming Newsletters!

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REFRIGERATION

American Innovation & Manufacturing Act: Implications on HVAC

WRITTEN BY: JAMES ROBINSON

Hello Houston Chapter. As the year comes to an end, I would like to take this opportunity to discuss the implications of the American Innovation and Manufacturing (AIM) Act on the HVAC industry beginning in January 2024. The primary focus of the AIM ACT, which was enacted by Congress in December 2020, is to reduce the production and usage of HFC refrigerants (like R-410A) due to their high global warming potential (GWP) and subsequent threat to the environment. For the remainder of December's article, I want to highlight the AIM ACT timeline which ultimately seeks to reduce the production of HFC's to 15% of the original production baseline. In January of 2020, the production of HFC refrigerants was reduced by 10%. In January of 2024, the production of HFC refrigerants will be reduced by another 30%. In January of 2025, the AIM ACT prohibits the manufacture and import of HVACR equipment containing HFC refrigerants or any refrigerant with a high GWP. Furthermore, in January of 2025, the AIM ACT requires that all new HVAC equipment be manufactured using refrigerants with a GWP limit of 700. For refrigeration equipment, the AIM ACT requires a GWP of either 150 or 300 depending on the service sector of the equipment. In January 2026, the sale of all HVACR equipment containing high GWP refrigerants is prohibited. In January of 2029, the production of HFC refrigerants will be reduced by another 30%, another 10% in January of 2034, and final production cut of 5% in January of 2036. The final rule was released by the EPA on October 6, 2023. This timeline set forth by the EPA demonstrates that government officials understand the urgency needed to combat environmental global warming and climate change to protect our way of life now and for future generations. Additional information can be found at www.epa.gov. Happy Holidays.

.

Refrigeration
CHAIRS

JAMES ROBINSON

DON INVESTER

SNAP
SIGNIFICANT • NEW • ALTERNATIVES • POLICY

James Robinson
Refrigeration Expert
ASHRAE Member
Houston Chapter

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STUDENT ACTIVITIES

STUDENT ACTIVITIES CHAIR



TARA DENNIS
STUDENT ACTIVITIES CHAIR



SADIA ASHRAF
LYNN G. BELLENGER
SCHOLARSHIP RECIPIENT



JOHN MCCULLOCH
DUANE HANSON
SCHOLARSHIP RECIPIENT

We are excited to announce that two Region VIII students were selected as 2023-24 Society $5,000 Scholarship Recipients! Please join me in recognizing both Sadia and John on their outstanding accomplishment!

***Sadia Ashraf**, Mechanical Engineering attending the University of Houston is the recipient of the Lynn G. Bellenger Engineering Scholarship which recognizes female undergraduate engineering students and is named in memory of the Society's first female president, who served as the Society's president in 2010-11.*

***John McCulloch**, Mechanical Engineering attending Texas A & M University and Texas University, is the recipient of the Duane Hanson Scholarship established by Gayner Engineers and is named for the company's former president.*

Stay up to date on the latest news and resources available to you by signing up for the student newsletter.

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GRASSROOTS GOVERNMENT

2023-2024 GRASSROOTS GOVERNMENT ADVOCACY CO-CHAIRS

KENNETH SHIFFLETT



KEITH REIHL



PASSED - 2021 BUILDING CODES

Houston City Council passed the 2021 Building Codes on Wednesday, October 25. The new codes will take effect on Tuesday, January 2, 2023. This is ALL of the codes. We would like to know if you would be interested in a full day training on the 2021 IECC, the UMC or any other codes. Please let us know.
https://www.houstonpermittingcenter.org/construction-code-modernization/code-amendment



Also, **Engineers Week** is coming up **February 18-24, 2024**.

We want people to volunteer in promoting it and participating in events

https://houstonengineersweek.org/

Engineers Week

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GRASSROOTS GOVERNMENT

ASHRAE Houston had a wonderful presentation by the City of Houston Code Modernization team on August 10th. Since that time the codes and amendments have been presented to the City of Houston Transportation, Technology, and Infrastructure Committee on August 24th. The period to submit and amendment proposal has closed; public comments are still being accepted through September 19,2023. In October the amendments will be presented to City Council for adoption.

The proposed amendments, and link to submit public comment are here

A high level overview can be found here

Houston's City Council Transportation, Technology, and Infrastructure (TTI) Committee
30-Day Public Comment Period: Monday, August 21, 2023 – Tuesday, September 19, 2023
Comment only period on the final proposed amendments. Amendment proposals will not be received for consideration.
August 24, 2023 - Special Called Meeting – 2021 Building Code Presentation
https://www.houstontx.gov/council/committees/tti.html

Task Force Group 2 (TFG-2): RESIDENTIAL & POOL CODES
International Residential Code (IRC) and the International Swimming Pool and Spa Code (ISPSC)
30-Day Public Comment Period: Wednesday, December 14, 2022 – Thursday, January 12, 2023
December 20, 2022: Extended to 01.20.23
January 9, 2023: Extended to 01.27.23
January 24, 2023: Extended to 02.14.23
2nd 30-Day Public Comment Period: Monday, July 17, 2023 – Tuesday, August 15, 2023

Task Force Group 3 (TFG-3): ENERGY CONSERVATION & PERFORMANCE CODES
International Energy and Conservation Codes (IECC) and International Code Council Performance Code (ICCPC)
30-Day Public Comment Period: Monday, January 9, 2023 – Tuesday, February 7, 2023
On January 24, 2023: Extended to Friday, February 17, 2023
2nd 30-Day Public Comment Period: Monday, July 17, 2023 – Tuesday, August 15, 2023

Task Force Group 4 (TFG-4): MECHANICAL, ELECTRICAL, AND PLUMBING CODES
30-Day Public Comment Period: Monday, March 13, 2023 – Tuesday, April 19, 2023
1. **2nd 30-Day Public Comment Period: Monday, July 17, 2023 – Tuesday, August 15, 2023**

A reminder when submitting a code amendment proposal:
The Houston Public Works mandate for this code adoption is to adopt the 2021 Code Editions as a base code with local amendments that:
- Help strengthen and ensure long term sustainability and resilience in Houston;
- Do not reduce the fire- or life-safety provisions without providing an equivalency to what's found in the base code; and
- Comply with the intent of the code in quality, strength, effectiveness, fire-resistance, durability, and safety for the purpose intended.
- Chapter One is for the Legal Department only. Amendments are excluded for submission

If you are interested in volunteering for this important project, please visit Construction Code Modernization | Houston Permitting Center.
You can also sign-up for the newsletter for this project and get updates for this project.

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SUSTAINABILITY

ASHRAE Publishes First Zero Energy and Zero Carbon Building Evaluation Standard

ANSI/ASHRAE Standard 228-2023, Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance, sets requirements for evaluating whether a building or group of buildings meets a definition of "zero net energy" or a definition of "zero net carbon" during building operation. The standard draws from ASHRAE Standard 105, among others, to address energy and carbon flows across a site boundary, their measurement, and their balance.

"Achieving a zero energy building has been viewed by many as a difficult goal to meet, with unforeseeable roadblocks and differing guidance," said Keith Emerson, P.E., Life Member ASHRAE, chair of the Standards Project Committee 228. Standard 228 provides a consistent method for determining whether new and existing sites have reached zero energy. We hope this standard will become a helpful resource for building professionals in strategic decarbonization planning."

Standard 228 does not apply to the establishment of building energy performance goals or limits; design guidance or design requirements; embodied energy of building materials and systems; and transportation to and from a building. The standard is also not intended to circumvent any safety, health, or environmental requirements.

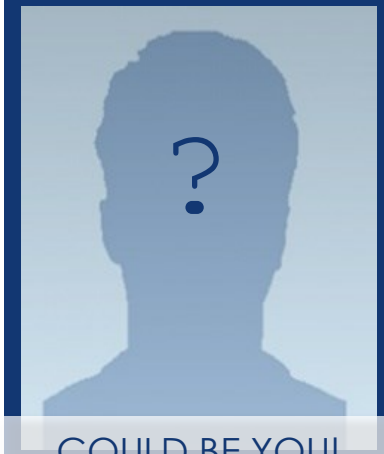
Department of Energy picked a Houston Consortium as Hydrogen HUB

The US Department of Energy selected Houston as home to one of seven clean hydrogen hubs nationwide. The new development could bring upto $1.2 Billion in federal funding to the Houston area. The Houston HUB is expected to be the largest out of the seven in regards to production, and the funding is going to go to HyVelocity Hub, a Houston consortium of oil and gas companies, public universities and nonprofit organizations. The hub is projected to create around 45,000 local jobs.

SUSTAINABILITY CHAIR



Andreas Winardi, PE



COULD BE YOU!

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COMMISSIONING

2023-2024 COMMISSIONING CHAIR

ADAM SEGOVIS



WRITTEN BY: ADAM SEGOVIS

Building Commissioning, in accordance with ASHRAE standards, is a systematic and comprehensive process aimed at ensuring that newly constructed or renovated building functions efficiently, reliably, and in accordance with the owner's requirements. ASHRAE particularly in Standard 202, outlines the guidelines for the commissioning process. This entails a series of activities, starting from the design phase, through construction, and into the occupancy phase. It involves the verification and documentation of all building systems, including HVAC, electrical, plumbing, and controls, to confirm they meet performance criteria and are integrated seamlessly. By adhering to ASHRAE standards for Building Commissioning, owners and occupants can benefit from enhanced energy efficiency, improved indoor air quality, reduced operating costs, and an overall optimized building performance. Over the next few months we will be covering Standard 202 in more detail.

USEFUL RESOURCES

Here is a link to a short video describing the benefits of continuously commissioning existing buildings
https://www.youtube.com/watch?v=U9wvpHsLOPU&t=58s

If commissioning is part of your process, expert guidance is essential.
ASHRAE offers several resources to help guide your team through this critical phase of a new construction project
https://www.ashrae.org/technical-resources/bookstore/commissioning

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BOG MINUTES

ASHRAE Houston Chapter

November 7, 2023 Meeting Agenda

I. Approve October Meeting Minutes
   a. Approved 6-0-1 Keith R and Alan Neely approve.

II. Monthly Meeting Team Reporting – action before the meeting and then report completed
   - ✓ Update on MBO & month's activities sent to RVC, Pres, BOG, Officer, and Chair Team
   - ✓ PAOE points entered
   - ✓ Uploads to Region 8 Basecamp and/or Houston Basecamp
   - ✓ Communications content for current & next month

	Min Points	PAR	22-23 Final	MBOs	September	Check In	October	Check In	November	Check In
Chapter Operations	600	1500	1355	X	435	X	515	X	555	
Chapter Technology Transfer	550	1500	3600	X	100	X	200		300	
Communications	300	700	820	X	25	X	65	X	65	
Government Affairs	500	1250	3150	X	200	X	500		500	
Historical	100	500	0	X	50	N/A	50	N/A	50	N/A
Membership Promotion	1000	1600	1785	X	350		650		650	
RP	800	1050	8287	X	0	X	0		142	
Student Activities	500	800	1390	X	180		180		180	
YEA	300	900	2325	X	650		1400		1400	
			22712		1990		3560			
Newsletter/Electronic Comm				X		X		X		
Refrigeration						N/A		N/A		N/A
Treasurer										

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BOG MINUTES

a. (Operations Team) Alan Neeley + President + Historian + GAC + H&A
   i. Neeley:
      1. Honors & Awards: Fellowship workshop meeting was today 11/7/23 – moving forward with that – needs others interested in diving into potential awards and honors that may be available
      2. 1 hour Ethics – is available if anyone needs it.

b. (Programs Team) Ken Shifflett + CTTC/President-Elect + Refrigeration + Sustainability + Commissioning

c. (Stakeholder Team) Greg Tinkler + RP/Vice President + YEA + WiA
   i. Nick:
      1. Working on Teams, Sponsors, etc. for Golf Tournament
      2. Sending a request for volunteers today.
      3. Sending out list of prior year's team to reach out to for registration.
   ii. Julie:
      1. 51 Registrants for November Luncheon – Solid Number.
      2. Have had low BOG attendance at Luncheon's. – Need more involvement!
      3. Need table top sponsor for November meeting
         a. Table top sponsor is $600 and a door prize.
      4. Rest of year's meetings presentations are planned. Needs to confirm with all presenters that they are still on.
      5. Keith Reihl: Decarbonization Game (interactive game idea) Drew Carly
         a. Use as presenter or make a bonus meeting?

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BOG MINUTES

d. (Nuts & Bolts Team) Keith Reihl + Treasurer + Newsletter + Communications
    i. Keith Reihl:
        1. City of Houston updated code to 2021 IECC & UMC effective January 2024.
        2. Regional DIA positions are going to be created.
    ii. Heather:
        1. No updates right now.
        2. Taxes – Checking on filing status if we have filed or not.
            a. Due 11/15 or file for extension.
    iii. Mason:
        1. Checked in for November
        2. Will put together December edition.
e. (Engagement Team) Mike Langton + Secretary + Membership Promotion + Student Activities
f. (YEA)
    i. Jacob – Last months HH shared with ABC was successful. Halloween contest. Charged $5 for entry and still had turn out. Looking into getting a YEA banner for events.
    ii. Have Trivia Night on 11/8/23
    iii. 11/30 AEI, YEA & McMillian James Joint Happy Hour.
    iv. Breaking sponsorship dollars down into smaller multi sponsor events.

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III. Old Business

a. Storage unit has been transferred – We still need keys

i. d

b. Reminder about CRC next April in Dallas – book hotel now if possible

i.

c. Recap of Treasurer position discussion

i. Future discussion in February/March – After the Winter Meeting.

ii. Chapter operations manual – is Treasurer a required role?

iii. Regional Treasurer to facilitate this discussion?

iv. Joe Sanders and Randy

IV. New Business

a.

MEETING ADJOURNED

Shannon – Pull list of eligibility for people to move from associate member to full member

- 12 consecutive years –
  - Verified full fledge member to participate of being a member.
  - ASHRAE website to see membership.

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ROSTER

2023-2024 Houston Chapter Volunteer Leadership

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