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ASHRAE Houston Chapter's

THE HOT AIR RECORDER

80th Volume No. I

August

Sun	Mo	Tue	We	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

10

AUGUST CHAPTER MEETING

Join ASHRAE Houston to kick off the 2023-2024 year as we welcome City of Houston Officials. They will be giving an overview of the Houston 2021 Construction Code with a focus on MEP & Energy Codes!

Location: Dukessa Event Center
2840 Chimney Rock Road, Houston, TX 77056
https://www.dukessahouston.com/

24

YEA - August Happy Hour

YEA is tentatively planning to host the August Happy Hour on 8/24. YEA is seeking a monthly sponsor to pick the location and time. Reach out to

2023-2024 HOUSTON ASHRAE OFFICERS



ASHRAE®

SEASON PASS

8 Regular Chapter Meetings

SAVE $65 TODAY!
Click here to get your 2023-2024 Season Pass!

NINTH ANNUAL SPORTING CLAY TOURNAMENT
9.05.2023
Greater Houston Gun Club



MORE INFO HERE

ANNUAL SPONSORSHIP OPPORTUNITIES



Click here to learn more!

2023-2024 Tabletop Sponsorship

$600



Sponsor the monthly Chapter Luncheon! Click **HERE** for more info

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PRESIDENT'S MESSAGE

Welcome to ASHRAE Houston for our 2023-2024 term! I am ready for an exciting year of programs, networking events, technical sessions, and RP outings, but most of all I am working with a great team ready to deliver through our chapter sessions content and collaboration that you cannot get anywhere else.

Let me introduce our volunteer leadership and a special "welcome aboard" to some **new committee chairs** …

Operations Team
Alan Neeley, Board of Governors + Honors and Awards Committee Chair
Catherine Tinkler, President
Bruce Flaniken, Historian
Ken Shifflett & Keith Reihl, Government Affairs Committee Chairs

Engagement Team
Mike Langton, Board of Governors
Tim Navarro, Secretary
Shannon Yancey, Membership Promotion
Tara Dennis, Student Activities

Stakeholder Team
Greg Tinkler, Board of Governors
Nick Janssen, RP/Vice President
Amanda Ackerman & Jacob Busch & Franco Madrigali & Pablo Marin, YEA Committee Co-Chairs

Programs Team
Ken Shifflett, Board of Governors
Julie Thomet, CTTC/President-Elect
James Robinson & Don Ivester, Refrigeration Chairs
Adam Segovis, Commissioning Committee Chair
Andreas Winardi, Sustainability Committee Chair

Nuts & Bolts Team
Keith Reihl, Board of Governors
Heather Camden, Treasurer
Mason Hall, Newsletter (HAR)
Rachel Haines, Webmaster & Social Media

This exceptional team held our annual planning session on Monday, July 11th and already have some outstanding plans for the year!

Don't forget to bookmark the ASHRAE Houston Chapter website for quick reference at **https://ashraehouston.org/index.php** . We are revamping the website over the next few months so expect to see updates to our content.

While on the site take a moment to …

- Read "A Message from the President" on the home page
- Register now for the August 10th meeting and save the date for future events on your calendar
- Check your Member Area Login
- Support Research Promotion with an Annual Sponsorship



Catherine Tinkler
Houston ASHRAE President
2023-2024

If YOU would like to be involved on any of these teams or support our efforts this year, please reach out to any one of us.

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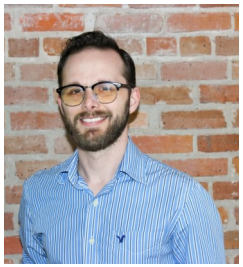
MONTHLY MEETING

GET TO KNOW THE SPEAKERS:
CITY OF HOUSTON OFFICALS



Carlos Rubiano

Carlos has a Bachelor of Science in Civil Engineering from the Colombian School of Engineering located in Bogota Colombia. After finishing his degree in 2004, he worked for a structural consulting firm in Bogota that designs structural plans for residential and commercial projects in Los Angeles, California. In 2006 he moved to Bay Harbor Islands, FL and worked with a Design-Built company that specializes in hospitality industry designing nightclub restaurants and hotels. He then moved to Houston in 2014 to work for the Houston Permitting Center as a Senior Plan Analyst reviewing Structural, Engineering and Fire Protection disciplines for heavy commercial projects. In 2020 he was promoted to work for the Building Official in the Customer Assistance and Code Development group.



Heath Wierck

Heath is a graduate of Sam Houston State University with a degree in English and History. He has worked in Building Code Enforcement for 9 years, spending two years with the Plan Review department before moving to work for the Building Official in the Customer Assistance and Code Development group. Heath specializes in code development and has worked on the last three Houston code adoptions, and is heavily involved with the Texas Legislature to analyze and review bills for their impact to both Houston and the state. He is a member of the International Code Council's Major Jurisdiction Committee (MJC) and stays active in ICC's code development to help Houston with any future code updates/ changes.



Steve Stelzer

Steven M. Stelzer has a Bachelor of Science in Architecture from Ohio State University and a Master of Business Administration from the University of Houston. Steve has over 30 years of diverse architectural firm experience in Houston with a focus in construction administration most recently Heights Venture Architects. As Program Director of the Green Building Resource Center, Steve offers green building strategies for plans brought in by the public, develops and maintains green strategy displays, coordinates green building tours, and facilitates educational programs. Steve reviews plans for cost-effective green options that create a healthier living environment, reduce wasted material, and save money. Steve is focused on making Houston a greener place to live and work. He is currently president of the Citizens Environment Coalition. He has also served as a board member of the American Institute of Architects and the US Green Building Council's Gulf Coast Region Chapter and as vice chair of the City of West University Place's Recycling and Solid Waste Reduction Board. Steve was Committee Chair of the 2013 AIA Gulf Coast Green Symposium. He is the principal author of Houston Corridor Guide to Sustainable Development.

TOPIC
HOUSTON MEP & ENERGY CONTRUSTION CODE UPDATE

Come join us as we welcome the City of Houston to our kick off chapter meeting! **Carlos Rubiano, Heath Wierck, Steve Stelzer** will be presenting an overview of the **Houston 2021 Construction Code** update with a **focus** on significant changes to **MEP and Energy codes**, and will cover any relevant updates to the permitting and plan review processes. We will also have several officials attending the meeting for you to network with and ask questions.

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.

MEMBER

$32.00 Earlybird rate before August 2
$35.00 Member Luncheon Ticket
$40.00 After 12:00 pm August 9

NON-MEMBER

$42.00 Earlybird rate before August 2
$45.00 Non-Members Luncheon Ticket
$50.00 After 12:00 pm August 9

CLICK HERE TO REGISTER

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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	Date TBD	03.27.2024	Date TBD
Greater Houston Sports Club			

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
- ASHRAE Partner recognition at the annual conference
- Four (4) participants at the Sporting Clay Tournament + one team (of 4) at both Golf Tournaments+ first buy ins for four (4) participants at the Poker Tournament
- Inclusion for free in the ASHRAE Houston directory
- Admission for four (4) to the Past President night
- Tailgate sponsor at the Golf Tournaments
- Tabletop display space at the Sporting Clay Tournament

CONTRIBUTE HERE

GOLD

$7,500

- Signage at each event as a Gold Sponsor
- Recognition on ASHRAE Houston website as a Gold Sponsor
- Two(2) participants and stand sponsor at the Sporting Clay Tournament
- One team (of 4) at the Golf Tournament of your choice + first buy ins for two (2) participants at the Poker Tournament
- Hole sponsor signage at both Golf Tournaments
- Inclusion for free in the ASHRAE Houston directory
- 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 and stand sponsor at the Sporting Clay Tournament
- First buy in for one(1) participant at the Poker Tournament
- Hole sponsor signage at the golf tournament of your choice
- 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 + stand sponsor at the Sporting Clay Tournament
- 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
- 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 OR stand sponsor at the Sporting Clay Tournament

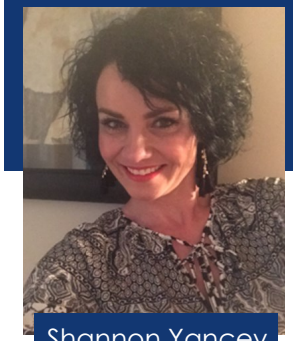
CONTRIBUTE HERE

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MEMBERSHIP

2023-2024 MEMBERSHIP PROMOTION COMMITTEE



Shannon Yancey

ASHRAE Membership Facts

Founded in….1894

Based in…Atlanta, GA

Approximately how many members…57,000

Regions

There are 15 ASHRAE Regions throughout the world.

Regions are comprised of 7 –26 Chapters each

US / Canada / Central & South America: Regions 1-12

Local Chapters

There are 187 ASHRAE Chapters throughout the world!

Board of Governors: Elected by chapter members

- President
- Vice President
- Treasurer
- President-Elect
- Secretary

Houston Chapter is in Region 8

Asia/Australia: Region 13

Europe: Region 14 – Newest!

Region-at-Large

Please welcome our new members: Aung Wai, Michael Taylor, Stephen H Cremona, Kevin M Cash, Adam Segovis, & Chris L Kalinec

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 are being transferred from Nick Janssen to Heather Camden

TAX Last year's taxes are being filed

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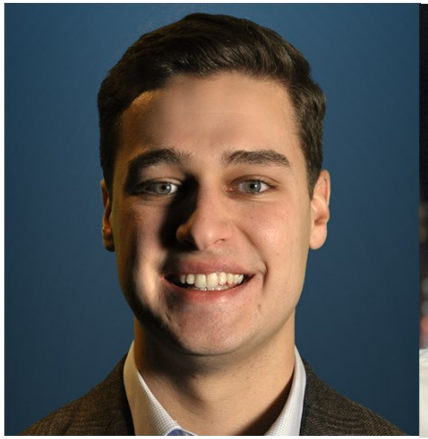
Jacob Busch

Graduated from Texas A&M University in 2018 with a degree in Industrial Distribution and currently pursuing a masters in Industrial Distribution c/o '24. He currently works for Automated Logic, a division of Carrier. Jacob likes playing soccer and pickleball, cooking, and traveling.



Amanda Ackerman

Graduated with a degree in mechanical engineering from Texas A&M in 2019 and is currently a mechanical EIT with Smith Seckman Reid. She enjoys playing sand volleyball, video games, and spending time with friends and family.



Franco Madrigali

Graduated with a degree in Industrial Distribution from Texas A&M University in December of 2017 and is a Technical Sales Engineer with Johnson Controls. He enjoys spending time with his wife and newborn daughter, as well as traveling, running, and spending time outdoors.



Pablo Marin

Graduated from Iowa State University with a degree in Industrial engineering back in 2020 and right away started working with Engineered Air. He enjoys spending time with family, traveling and practicing kite boarding.

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

YEA SPONSORS (2023-2024)

WE ARE SEEKING SPONSORS TO HELP US SUPPORT OUR COMMITTEE

IF INTERESTED PLEASE CLICK **HERE**

CONTACT PABLO MARIN

to sponsor the August Happy Hour

2023-2024 YEA Co-Chair

pablo.marin@engineeredair.com

YEA Happy Hour

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

BASICS ON AIR CONDITIONING VS. REFRIGERATION

WRITTEN BY: JAMES ROBINSON

Hello Houston Chapter. My name is James Robinson; Co-Chair of the Refrigeration Committee and ASHRAE full member for the past seven years. I want to take this opportunity to update the chapter on the Environmental Protection Agency's progress in transitioning new Low-Global Warming Potential (GWP) refrigerants to the marketplace. The agency has finalized its Significant New Alternatives Policy (SNAP) Rule 25 which lists seven refrigerants approved for use in HVACR equipment. These A2L (slightly flammable) refrigerants are expected to help the HVAC industry combat climate change and global warming by replacing existing refrigerants that have higher GWP levels when released into the atmosphere. I will continue to update the Chapter on all of the new A2L refrigerant rules and proposals being considered by the EPA as ASHRAE continues to focus their built environment strategies around environmental sustainability.

EPA SNAP RULE 25 REFIGERANTS & FIRE SUPPRESSION SUBSTITUTES

The refrigerants listed as acceptable are:

- HFO-1234yf
- R-454A
- R-454B
- R-454C
- HFC-32
- R-452B
- R-1150 (ethylene)



The fire suppression substitutes listed as acceptable are:

- 2-BTP
- EXXFIRE®
- Powdered Aerosol H (Pyroquench-a™)

James Robinson
Refrigeration Expert
ASHRAE Member
Houston Chapter

> "The agency has finalized its Significant New Alternatives Policy (SNAP) Rule 25 which lists seven refrigerants approved for use in HVACR equipment."

Refrigeration CHAIRS

DON INVESTER

JAMES ROBINSON

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STUDENT ACTIVITIES

STUDENT ACTIVITIES CHAIR



TARA DENNIS

STUDENT ACTIVITIES CHAIR



KACEY JOHNSON

CAREER SERVICES ADVISOR

MIAT COLLEGE OF TECHNOLOGY

Kacey Johnson, Career Services Advisor with MIAT College of Technology shared that they recently began looking into chartering an ASHRAE Chapter because "the mission of the organization fit in with our goal to be known locally and throughout the nation as an institution that offers a program where students can get a solid HVAC-R certification." The HVAC program has been offered at MIAT for five (+) years and is growing by "leaps and bounds" states Johnson. MIAT plans to launch their newly formed chapter collaboratively with their campus-wide Career Fair where there will be numerous industry professionals along with Fortune 500 corporations present to discuss unique apprenticeship opportunities and employment needs. The hope is that high school invitees will see this field as a "sound option" due to this experience.

As the newest collegiate chapter, please join me in welcoming the MIAT College of Technology into the ASHARE Houston network!

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



USEFUL RESOURCES

Have you been to ASHRAE's Government Affairs page? There are landing pages for ASHRAE position documents on issues, a newsletter sign up, advocacy tool kits, Engineer's Week, among others.

https://www.ashrae.org/about/government-affairs

The ASHRAE Policy Position and Issues page has a wealth of information a wide breadth of topics, including recommendations for reopening businesses and schools.

https://www.ashrae.org/about/government-affairs/policy-positions-and-issues

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GRASSROOTS GOVERNMENT

Construction Code Modernization Project | 30-Day Public Notice Alert | July 17, 2023

The City of Houston is in the process of receiving public comments for the proposed 2021 Building Codes. The 2021 Building Code Analysis is grouped by Task Force Group (see below). There will be a 30-Day Public Comment period with the opportunity to submit a proposed amendment for each group. To view the proposed 2021 Building Codes and to submit a proposed amendment please visit Construction Code Amendments | Houston Permitting Center.

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

CALL FOR SUSTAINABILITY COMMITTEE CHAIR

WRITTEN BY: ANDREAS WINARDI, PE

Fellow Houstonian ASHRAE members and friends,

It is a pleasure to serve as Sustainability Chair for 2023-2024 and be part of the Houston ASHRAE Chapter. The word Sustainability has gotten a bad rap lately, and as a Professional Engineer who has been working in the Energy Efficiency field for the last 18 years, Sustainability is about innovation that improves our quality of life and being a good steward in the place where we watch our kids grow, work and live.

My goals for this year are to increase member awareness of Sustainability, showcase the great building design or sustainability programs in the area and educate fellow Houston ASHRAE members through educational sessions on Sustainability related topics. I am also planning to highlight the great works of our fellow members in this newsletter, so if you have any ideas, issues, or connections to a new sustainable building or program you worked on, please let me know so I can highlight your great work!

I also want to invite our members to join me on the Houston ASHRAE Sustainability Committee. I plan to have fun planning sustainability events, volunteer events, Happy Hours, Tours, or educational events for our chapter. I am looking for 3-4 volunteers to join this team.

Please email me at: **sustainability@ashraehouston.org**

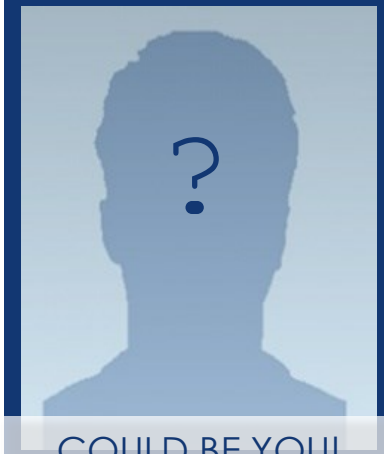
Sincerely,

ANDREAS WINARDI, PE

SUSTAINABILITY CHAIR



Andreas Winardi, PE



COULD BE YOU!

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COMMISSIONING

2023-2024 COMMISSIONING CHAIR

ADAM SEGOVIS



WRITTEN BY: ADAM SEGOVIS

Existing building commissioning of controls is crucial for end users as it ensures optimal performance, energy efficiency, and cost-effectiveness of building systems. By thoroughly examining and fine-tuning the operation of heating, ventilation, air conditioning, lighting, and other control systems, commissioning experts can identify and rectify any inefficiencies or malfunctions that might have developed over time. This process leads to improved indoor comfort, reduced energy consumption, and lower utility costs for building occupants. Moreover, commissioning helps identify potential safety hazards, ensuring that all systems comply with current codes and standards. For end users, this translates into a sustainable, comfortable, and safe environment, as well as long-term cost savings, making building commissioning a vital investment for both occupants and building owners alike.

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

Annual Planning Meeting Minutes
July 10, 2023

I. Last Year End of Year Reports – any old business?
   a. CTTC – Catherine
   b. RP - Julie
   c. Treasurer - Nick
      i. Audit – working to set up appointment to complete by July 31
      ii. Transfer at the bank
         1. Motion by Julie – Change the bank account authorized signatures… ON the account – VP/RP, Treasurer, President-Elect. Others previously on the account are removed.
         2. Motion 2nd by Nick
         3. Motion Passed – all in favor
      iii. Report on meeting minutes necessary for the bank to process our changes.
         1. Meeting of the members was held on May 25th to elect officers for 2023-2024.
         2. Slate of officers was put forward by the Nominating Committee of:
            a. President – Catherine Tinkler
            b. President-Elect / CTTC – Julie Thomet
            c. Vice President / RP – Nick Janssen
            d. Treasurer – Heather Camden
            e. Secretary – Tim Navarro
         3. Motion by Josh Vanlandingham to accept the slate of officer as presented.
         4. Motion 2nd by Ken
         5. Motion Passed – all in favor
   d. Secretary – Heather
   e. Any committee chair reports

II. Introductions to new folks
   a. Connections
      i. Basecamp – login & update profile
      ii. Basecamp – folder setup or cleanup
      iii. Website – email & photo

III. Overview of 2023-24
   a. Thank you! Garrett, Chairs, Website, HAR, Officers
   b. Meetings and Location – Julie
   c. Full Circle-Officers and BOG – Nick
   d. Preparation for MBOs to RVCs

IV. President's Initiatives for 23-24
   a. Establish a framework for Board of Governors, Officers, and Committee Chairs to align their goals, support each other's volunteer efforts, and bring stability to communications.
   b. Align the Houston Chapter efforts with ASHRAE society initiative and continually monitor progress towards Presidential Award of Excellent (PAOE) achievements.
   c. Deliver quality monthly programs that are effective, high-quality, and relevant to all members of the Houston HVAC&R industry. Employ thoughtful techniques to attract participation in these programs from varied perspectives to enrich these learning opportunities and support conversations with other professional organizations.
   d. Support quality interactions between the various stakeholders engaged in ASHRAE

V. Organizational Framework
   a. BOG + Officer + Committee Chairs
      i. (Operations Team) Alan Neeley + President + Historian + GAC + H&A
      ii. (Programs Team) Ken Shifflett + CTTC/President-Elect + Refrigeration + Sustainability
      iii. (Stakeholder Team) Greg Tinkler + RP/Vice President + YEA + WiA
      iv. (Nuts & Bolts Team) Keith Reihl + Treasurer + Newsletter + Communications
      v. (Engagement Team) Mike Langton + Secretary + Membership Promotion + Student Activities

VI. Monthly Meeting Reporting – action before the meeting and then report completed
   a. Update on MBO & month's activities sent to RVC, Pres, BOG, Officer, and Chair Team
   b. PAOE points entered https://eweb.ashrae.org/eweb/dynamicpage.aspx?site=ASHRAE&webcode=paoe&chp_cst_key=5a7fe37e-3719-43a8-916a-b9cb1ab5cd11
   c. Uploads to Region 8 Basecamp https://3.basecamp.com/3106353/buckets/2837986/vaults/6320929697
   d. Communications content for current & next month

VII. Group Discussion of what worked in past years.

VIII. Connecting with Ginger's society theme
   a. Requirement to watch video series … https://www.ashrae.org/about/decarbonization-101-a-four-part-video-series

IX. Work Time in Teams
   a. POAE Brainstorming
   b. MBO's writing
   c. Engaging other volunteers

X. Team Reports

MEETING ADJOURNED

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Refrigeration
Student Activities
Grassroots Government
Sustainability
Commissioning
BOG Minutes
Roster

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2023-2024 Houston Chapter Volunteer Leadership

Operations Team	
Alan Neeley, Board of Governors	alan_neely@pghcorning.com
Catherine Tinkler, President	CTinkler@pagethink.com
Bruce Flaniken, Historian	BLFlaniken@houstonmethodist.org
Ken Shifflett, Government Affairs Committee Chair	kshifflett@distribaire.com
Keith Reihl, Government Affairs Committee Chair	reihl@swbell.net
Alan Neeley, Honors and Awards Committee Chair	alan_neely@pghcorning.com
Garrett Neubauer, Past President	gneubauer@pagethink.com
Programs Team	
Ken Shifflett, Board of Governors	kshifflett@distribaire.com
Julie Thomet, CTTC/President-Elect	juliet@mjec.com
James Robinson, Refrigeration Committee Chair	jamesrobinsonblazer@outlook.com
Don Ivester, Refrigeration Committee Chair	Don.Ivester@graymechanical.com
Adam Segovis, Commissioning Committee Chair	ASegovis@convergentz.com
Andreas Winardi, Sustainability Committee Chair	AndreasW@McKinstry.com
Stakeholder Team	
Greg Tinkler, Board of Governors	GTinkler@pagethink.com
Nick Janssen, RP/Vice President	nick.janssen@texasairsystems.com
Amanda Ackerman, YEA Committee Co-Chair	aackerman@ssr-inc.com
Jacob Busch, YEA Committee Co-Chair	jacob.busch@carrier.com
Franco Madrigali, YEA Committee Co-Chair	franco.madrigali@jci.com
Pablo Marin, YEA Committee Co-Chair	pablo.marin@engineeredair.com
Nuts & Bolts Team	
Keith Reihl, Board of Governors	reihl@swbell.net
Heather Camden, Treasurer	camden@eceng.com
Mason Hall, Newsletter	mhall@unifyes.com
Rachel Haines, Webmaster & Social Media	rachel@sshvac.com
Engagement Team	
Mike Langton, Board of Governors	mlangton@langtonenergy.com
Tim Navarro, Secretary	Tim.Navarro@carrier.com
Shannon Yancey, Membership Promotion	shannon.yancey@caleffi.com
Tara Dennis, Student Activities	tdennis@resource-innovations.com