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ASHRAE Houston Chapter's

# THE HOT AIR RECORDER

80th Volume No. 10


## MAY

| 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 | |

MAY 09

### MAY CHAPTER MEETING

Join ASHRAE Houston from **11-1PM** on **May 9th** as we welcome Kirk Phipps to present on Hydronic System Balancing Methods! Follow the link **here to register.**
**Location:** Dukessa Event Center - 2840 Chimney Rock Rd

MAY TBD

### YEA HAPPY HOUR - SPONSOR NEEDED for May

**Date / Time:** TBD **Location:** TBD
PLEASE REACH OUT TO PABLO MARIN AT pablo.marin@engineeredair.com







## ASHRAE SOCIETY WANTS YOUR FEEDBACK



ASHRAE®

**SEASON PASS**

2024-2025 Season Pass coming in the Fall

**2024-2025 IN AUG.**

**2024 ANNUAL SPRING GOLF TOURNAMENT**

**THANK YOU**

**TO ALL THE SPONSORS AND SUPPORTERS OF ASHRAE HOUSTON**

**SEE Y'ALL IN THE FALL!**

ASHRAE 2024 Annual Conference
June 22-26 | Indianapolis, IN



**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:

# 2024 ANNUAL SPRING GOLF TOURNAMENT







## THANK YOU

To our Sponsors & Everyone that came out to SUPPORT! See y'all in the Fall!







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# PRESIDENT'S MESSAGE

Please join us for our monthly technical meeting. Each meeting begins at 11:00am with a short networking period, followed by introductions and chapter announcements. The technical presentation begins at 11:30am. We will also be formally electing the nominees for our 2024-2025 officers










- Nominees for our 2024-2025 Officers:
  - President: Julie Thomet
  - President-Elect: Nick Janssen
  - Vice President: Heather Camden
  - Treasurer: Tim Navarro
  - Secretary: Mason Hall
- In April, our ASHRAE Region VIII hosted the Chapter Regional Conference (CRC) in Fort Worth with officers and committee chairs receiving training for their roles next year. If you have an interest in volunteering for one of our committees, please contact me or Julie Thomet for additional information.
- Have you registered for the summer conference in Indianapolis this June 22nd – 26th? This is a great year to attend because it is a dual conference with the Conference for Integrated Design, Construction & Operations held June 24th – 26th.
  One registration allows you to attend both events!
  **CLICK HERE FOR MORE INFORMATION!**

Did you see the new ASHRAE Certification? You can learn more about the Certified Decarbonization Profession credential by **CLICKING HERE**.

*Catherine Tinkler*

**ASHRAE Houston Chapter President**

**2023-2024**



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# LAST MONTH'S MEETING

## GET TO KNOW THE SPEAKER:

### Catherine Tinkler, PMP, EBCP, LEED AP O+M

### Page, Strategic Consultant and Assessment Subject Matter Expert



ASHRAE Student Branch

*ASHRAE Student Branch members are our special guests for this meeting! ASHRAE scholarship winners will be announced and checks awarded to recipients.*

*Nominations for the 2024-2025 slate of officers as well as the Houston Chapter Hall of Fame inductee nominations will be announced. Floor vote and swearing in to occur at the May meeting.*

Facility owners and operators regularly face questions about their existing building portfolio when considering annual operations and maintenance budgets, capital improvement plans, repair or replacement choices for renewal efforts, and even repurposing or divestment decisions. With 85% of a building's lifespan occurring when the facility is populated, the environment within the existing structure and the impact of the existing systems and components on occupants should be a primary influence on decision making. Knowing the full range of assessments available and the types of data that can be collected, benchmarked, and utilized for pro-active, data-driven comprehensive planning is key to building facility quality initiatives. It is these facility quality initiatives that are the basis for project identification and planning, directly impacting occupant health, safety, and welfare which leads to facilities supporting the organization's goals.

**Learning Objectives:**

- Describe the types of evaluation data that can be woven together to inform decisions specific to quality environments in existing buildings.
- Explore the different types of facility assessments, such as condition, suitability, utilization, decarbonization, wellness, and resilience, and how the product of these studies can engage stakeholders in discussions about facility quality.
- Explain the methods used to frame the evaluation inquiry allowing facility owners and operators to focus on the right strategies to advance the bigger picture of occupant health, safety, and welfare.
- Discuss how an index is calculated for each assessment type and how the documentation of building systems produced during an assessment may be used to arrive at beneficial benchmarking, identification of initiatives, and prioritization.
- Strategize how an organization's strategic, organizational, management, and climate actions plans can be used as a framework to advance action recognizing that intention requires rigor and rigor quantities impact.

***AIA Credit is available and ASHRAE members are encouraged to invite Architect colleagues to join.***
***1 HSW/LU***

## MEETING INFO

**Thursday, April 11th**
11:00 AM - 1:00 PM

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

# THANK YOU CATHERINE FOR YOUR LEADERSHIP AND DEDICATION TO THE ASHRAE HOUSTON CHAPTER

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# THIS MONTH'S MEETING

## GET TO KNOW THE SPEAKER:

### Kirk Phipps, VP of Sales



## Topic: Hydronic System Balancing Methods

Starting with Hays Fluid Controls in 2009, Kirk Phipps has now spent over a dozen years dedicating his time to ensuring projects of all types have proper distribution of flow. Having been in a variety of roles, he is currently the Director of Sales managing a team of regional managers and providing consultation within the market segments of Commercial HVAC, Plumbing, Industrial Process, and onboard systems for both the US Navy and private marine vessels.

## Pictures from Past Meetings:







## MEETING INFO

**Thursday, May 9th**
11:00 AM - 1:00 PM

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

**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 $$$ on chapter meetings today!** You will still need to register for each meeting and pay $0!

**SEASON PASS HERE**

**MEMBER**

$32.00 Early Bird - Before 5/2
$35.00 Member Luncheon
$40.00 At the Door

**NON-MEMBER**

$42.00 Early Bird - Before 5/2
$45.00 Non-Members Lunch
$50.00 At the Door

REGISTER HERE

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# SOCIETY NEWS




## Earn a CDP Certification

*The CDP certification program validates competency of the decarbonization professional to do the following:*

*Assess, analyze, and develop effective and sustainable strategies that reduce/eliminate the life-cycle carbon footprint of new and existing buildings.*

CDP Advantage ▼ | Check Eligibility ▼ | Apply Now ▼ | Testing ▼ | Get Exam Ready ▼

**Key Dates:**

1. Apply **by June 7**
2. Sit for the CDP exam anytime **June 25 – July 21** at any of ASHRAE's 1,000+ test center locations worldwide, OR **June 26** (7:30 a.m. check-in) in Indianapolis at the ASHRAE Annual Conference
3. CDP exam results released **August 15.**

APPLY NOW

### Application Fees

**ASHRAE Member:** $395
**ASHRAE Developing Economies Member:** $235
**Non-member:** $595
**Corporate Group:** Email Tim Kline or call 678-539-1181 for a quote.

*Note:* Non-native English speakers may apply to receive an additional 30 minutes of testing time.

Want to be the first to learn about CDP developments? >> **Click here!**

### Questions?

To learn more about the CDP advantage please call 678-539-1105 or email with any additional questions.

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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 | 04.17.2024 | 02.15.2023 |
| Greater Houston Sports Club | The Golf Trails of The Woodlands | Blackhorse Golf Club | 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

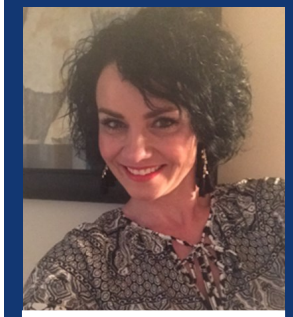
CONTRIBUTE HERE

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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**

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

Last year's taxes are filed

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# YEA







## MAY HAPPY HOUR

**SPONESOR NEEDED!**

Contact Pablo Marin to sponsor the May YEA Happy Hour!!!

pablo.marin@engineeredair.com

## 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 here

**How to Sponsor?**

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

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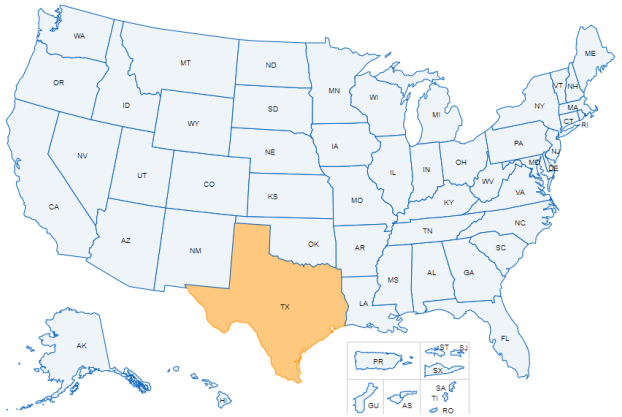
# REFRIGERATION

## A2L Refrigerant Building Code Map

**This map indicates where state and local building codes have been updated or legislation passed to allow equipment using A2L refrigerants. It will be revised as building codes and legislation are updated.**

**WRITTEN BY: JAMES ROBINSON**

Hello Houston Chapter. I have great news! The Air Conditioning, Heating, and Refrigeration Institute (AHRI) has developed new software designed to address some of the most pressing concerns about the industry's transition to low-GWP refrigerants. AHRI's A2L Refrigerant Building Code Map and Video Series provides extensive interactive resources to all HVACR stakeholders. The map covers topics such as government legislation, existing codes, referenced standards, and updates to building codes across the United States. The map is consistently updated as codes and laws are adopted to meet transitional needs. The A2L video series is a collaboration between AHRI, the International Code Council (ICC), and the Plumbing-Heating-Cooling Contractors National Association (PHCC). These videos provide information on everything from A2L refrigerant overview to future codes and standards addressing A2L refrigerants.




This resource is welcome news for the retail food and commercial refrigeration sectors who continue to point out the need for the EPA to finalize SNAP Rule 26, which would allow for faster manufacturing of A2L and next generation refrigeration equipment. For instance, R-290 (Propane) is an A3 refrigerant that can only be used in equipment with a refrigerant charge of no more than 150 grams/ 5.29 ounces. Manufacturers are eager for the role of R-290 to be expanded in the SNAP 26 final rule. Until then, manufacturers are limited to short term solutions such as development of multiple refrigerant equipment, A2L compatible component design, low-GWP refrigerant development, and comprehensive high-GWP refrigerant management strategies. For more information about AHRI's Refrigerant Building Map and Video Series please visit the link **HERE**!

Refrigeration
CHAIRS

JAMES ROBINSON

DON INVESTER

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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

## Grassroots Government Advocacy Committee



To establish ASHRAE as a leading source for expertise in the built environment, and a resource for policymakers in the development of legislation and regulations affecting the public, the HVAC&R community, and the engineering profession.

### Build Relationships

Between the Society and all levels of government.

### Counsel and Assist

On matters affecting the public, engineering profession, and ASHRAE professional community.

### Collect, Digest, and Disseminate

To members relevant information regarding current or anticipated government actions.

### Pursue

Technology transfers independently or jointly with other appropriate organizations.

## ASHRAE Standards

**55** Specify the combinations of indoor space environment and personal factors that will produce thermal environmental conditions acceptable to 80% or more of the occupants within that space.

**62.1** Specify minimum ventilation rates and other measures intended to provide indoor air quality that is acceptable to human occupants and that minimizes adverse health effects

**90.1** Establish the minimum energy efficiency requirements of buildings other than low-rise residential buildings for design, construction, and a plan for operation and maintenance and utilization of on-site, renewable energy resources

**100** Provide criteria that will result in the conservation of energy resources in existing buildings

**105** Specify consistent methods for determining and reporting the energy performance of buildings for use in comparing design alternatives and operational improvements and to support energy standards and reporting of building-related greenhouse gas emissions

**188** Establish minimum legionellosis risk management requirements for building water systems.

**189.1** Provides minimum requirements for the siting, design, construction and plan for operation of high-performance green buildings to balance environmental responsibility, resource efficiency, occupant comfort and well-being, and community sensitivity, and support the goal of development that meets the needs of the present without compromising the ability of future generations to meet their own. It is an alternate compliance path to the 2015 International Green Construction Code (IgCC) and will be the compliance path in the 2018 IgCC.

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# SUSTAINABILITY

## CLEAN AND GREEN HOUSTON—2024 GREENEST CAR LIST BY ACEEE

The electric vehicles on the Greenest List had the lowest fueling costs because of their higher efficiency. EVs and plug-in hybrid electric vehicle (PHEV) models topped the list.

| Rank | Make & Model | Powertrain | Green Score | MSRP | Est. Annual Fuel Cost* |
|---|---|---|---|---|---|
| 1 | Toyota Prius Prime SE | PHEV | 71 | $32,975 | $529 |
| 2 | Lexus RZ 300e | EV | 67 | $55,150 | $651 |
| 3 | Mini Cooper SE | EV | 67 | $30,900 | $747 |
| 4 | Nissan Leaf | EV | 66 | $28,140 | $741 |
| 5 | Toyota bZ4X | EV | 66 | $43,070 | $689 |
| 6 | Toyota RAV4 Prime | PHEV | 64 | $43,690 | $741 |
| 7 | Hyundai Elantra Blue | Gas Hybrid | 64 | $26,250 | $864 |
| 8 | Hyundai Kona Electric | EV | 63 | $34,050 | $695 |
| 9 | Toyota Camry LE | Gas Hybrid | 63 | $28,855 | $907 |
| 10 | Kia EV6 | EV | 63 | $43,975 | $689 |

*ACEEE analysis using EIA data of annual cost—from gasoline, electricity, or a combination—of driving 15,000 miles

## GREENER CHOICES

The 2024 Greener Choices list includes model year 2024 cars that are available nationwide with among the lowest environmental impacts in each vehicle class but that didn't make the Greenest List. The Greener Choices list does not include EVs (including PHEVs) because some drivers do not have adequate access to EV charging.

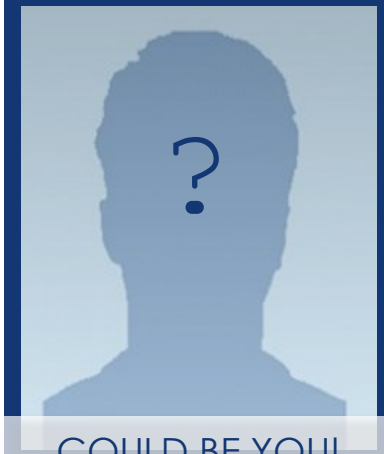
| Rank | Make & Model | Powertrain | Vehicle Class | Green Score | MSRP | Est. Annual Fuel Cost* |
|---|---|---|---|---|---|---|
| 1 | Honda Accord | Gas Hybrid | Large Car | 62 | $33,990 | $982 |
| 2 | Kia Niro FE | Gas Hybrid | Compact SUV | 61 | $28,315 | $885 |
| 3 | Mitsubishi Mirage | Gas | Compact Car | 59 | $17,955 | $1,189 |
| 4 | Lexus ES 300h | Gas Hybrid | Midsize Car | 59 | $44,590 | $1,073 |
| 5 | Lexus NX 350h | Gas Hybrid | Midsize SUV | 57 | $43,465 | $1,207 |
| 6 | Ford Maverick | Gas Hybrid | Compact Pickup | 55 | $24,900 | $1,297 |
| 7 | Toyota Sienna | Gas Hybrid | Minivan | 55 | $39,080 | $1,304 |
| 8 | Mini Cooper Convertible | Gas | Subcompact Car | 54 | $35,700 | $1,412 |
| 9 | Toyota Highlander | Gas Hybrid | Large SUV | 54 | $40,720 | $1,348 |
| 10 | Kia Soul | Gas | Small Wagon | 53 | $21,565 | $1,467 |

*ACEEE analysis using EIA data of the annual cost of driving 15,000 miles

## 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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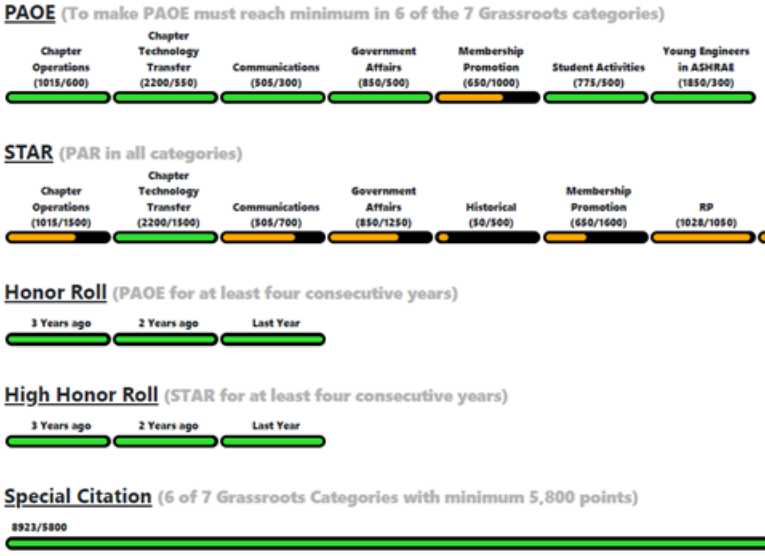
# BOG MINUTES

ASHRAE Houston Chapter

## April 9, 2024 Meeting Minutes

I. Approve March Meeting Minutes
   a. Approved March Minutes by Riehl 5-0-1
   b. Catherine, Greg, Julie, Nick, Tim
      i. Update February meeting minute notes to 5-0-0 approved (add Ken and Heather)

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




   a. (Operations Team) Alan Neely + President + Historian + GAC + H&A
   b. (Programs Team) Ken Shifflett + CTTC/President-Elect + Refrigeration + Sustainability + Commissioning
   c. (Stakeholder Team) Greg Tinkler + RP/Vice President + YEA + WiA
      i. Needs volunteers for golf tournament from 9:30am – 11 am
   d. (Nuts & Bolts Team) Keith Reihl + Treasurer + Newsletter + Communications
   e. (Engagement Team) Mike Langton + Secretary + Membership Promotion + Student Activities

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# BOG MINUTES

1. Keys have not been received yet. Need to get the keys.

b. Vote on 2023-2024 officers in BOG today and take nominations from the floor on Thursday.
c. Vote on Officers: Approved 9-0 President not Voting
   i. President: Julie Thomet
   ii. President Elect/CTTC: Nick Janssen
   iii. VP/RP: Heather Camden
   iv. Treasurer: Tim Navarro
   v. Secretary: Mason Hall
   vi. BOG: Kimberly Thompson
   vii. BOG: Bill Chalmers
   viii. BOG: Kurt McCulloch
   ix. BOG: Ken Shifflett
   x. BOG/Past President: Catherine Tinkler

d. Julie to review next year's roster with everyone
   i. We still need chairs for:
      1. Historian committee (may have commitments, may not)
      2. Membership Promotion
      3. Directory
   ii. We'd like co-chairs/committee members for:
      1. DEI/WiA
      2. Historian
      3. Membership Promotion
      4. Student activities (may have commitments)
      5. Special Events/RP
         a. Need someone to lead on Clay Shoot, Fall Golf Tournament, Poker Tournament, and Spring Golf Tournament

e. Reminder about CRC next April in Dallas
   i. CRC attendees: Julie, Greg, Catherine, Mason, Ken, Keith, Heather, Mike, Alan, Nick.
   ii. Virtual Training Schedule | Sign up here: CRC Workshop Sign-Up (google.com)
      1. 4/18 | 8:00 AM - 10:00 AM | Chapter Operations
         a. Good idea for all officers (Julie, Nick, Heather, Tim, and Mason) to attend
      2. 4/18 | 10:00 AM - 11:00 AM | Treasurer Workshop
         a. Tim and Mason need to attend.
      3. 4/18 | 11:00 AM - 12:30 PM | Chapter CTTC Chair Workshop
         a. Nick needs to attend.
      4. 4/18 | 1:00 PM - 2:00 PM | DEI Training
         a. Christy Troutman needs to attend. If we find a co-chair, they should attend as well.
      5. 4/18 | 2:00 PM - 3:00 PM | RP Training
         a. Heather needs to attend
      6. 4/18 | 3:00 PM - 4:00 PM | Membership Promotion
         a. Until we find a chair, Julie will sign up.
      7. 4/19 | 8:00 AM - 9:00 AM | Student Activities
         a. Reed Cameron will attend
      8. 4/19 | 9:00 AM - 10:00 AM | Communication
         a. Rachel and Kendall Zolman (HAR Editor) should attend

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# BOG MINUTES

9. 4/19 | 10:00 AM - 11:30 AM | GAC
    a. Ken and Keith need to attend
10. 4/19 | 11:30 AM - 12:30 PM | Historian
    a. Until we find a chair, Julie will sign up.

f. Chapter TC Liaison – Table this ongoing organizational effort
g. YEA Leadership Retreat – Plan to report on event at the May BOG meeting. (Mason, Tim, Pablo)
h. Nominating Committee – Houston Chapter Hall of Fame / Century Club
    i. Greg Tinkler- Past President, Golden Gavel recipient, Jack Thompson Award
    ii. Hugh McMillan III- Past Society VP, Chapter Past President, Golden Gavel Committee Chair
    iii. Gaylon Richardson- 50+ year career in air distribution & contributions to the Houston chapter
    iv. Bruce Flaniken- Past President 3 times with 2 different ASHRAE Chapters, Historian Emeritus
    v. Keith Reihl- Past President, Jack Thompson Award
i. Fellow Submissions to Society:
    i. Michael Langton – Final edits and then submitting
    ii. Greg T, Keith R and Alan N.

j. Audit Committee – Current/Incoming Treasurer, Current/Incoming President – be ready to audit at the end of May
    i. Keith Reihl – Going to talk to Joe Sanders about this date.

IV. New Business
    a. Updates to Houston Chapter Bylaws
        i. Secretary is the "Assistant Treasurer"
        ii. Dates for nominating/voting officers

    b. ASHRAE Schools Partnership Program
    https://www.ashrae.org/communities/chapters/doe-lbnl-partnership
    Thanks so much for speaking with me about the Houston Chapter's involvement with ASHRAE's Schools Partnership Pilot Program. The Schools Partnership Program webpage has a variety of resources and I will send updates about the next funding round soon. The FOA should be released this week with concept papers due in May and the final application in September. It would be great if you could share this information with the Houston Chapter and see if any members are interested in getting involved in this funding round. This would include reaching out to schools to share technical information on improving the energy and IAQ performance of school facilities as well as information about the federal assistance available.

    I also wanted to share our Building EQ Competition which gives students the opportunity to evaluate and audit building energy consumption for buildings in operation to give the building a Building EQ score using the ASHRAE Building EQ online tools. Please share with your contacts at Rice University if they would like to get involved by conducting an energy audit of a local school. There are PAOE points (SA6.5) for entering the competition and for chapter members mentoring a team (SA6.13).

    c. Chapter Officers attend Decarb 101 Training
    https://www.ashrae.org/about/decarbonization-101-a-four-part-video-series
        i. Part 1 (January)
        ii. Part 2 (February)
        iii. Part 3 (March)
        iv. Part 4 (April)

MEETING ADJOURNED on 4/9/2024 @ 4:57pm

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# ROSTER

## 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@owenscorning.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 |