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ASHRAE Houston Chapter's

THE HOT AIR RECORDER

80th Volume

No. 9

APRIL

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				

APR 14

APRIL CHAPTER & STUDENT BRANCH MEETING

Join ASHRAE Houston from **11-1PM** on **April 11th** as Catherin Tinkler presents on Using Assessments to Create Actionable Facility Plans! Follow the link **here to register**.

PLEASE WELCOME OUR STUDENT BRANCH MEMBERS AS OUR SPECIAL GUESTS!!!

Location: Dukessa Event Center

APR 17

2024 ANNUAL SPRING GOLF TOURNAMENT

Date / Time: April 17th / Lunch Check-In / Afternoon Start
Location: BlackHorse Golf Club
12205 Fry Rd, Cypress, TX 77433
SIGN UP HERE!!!

APR TBD

YEA HAPPY HOUR - SPONSOR NEEDED for April

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



ASHRAE SOCIETY WANTS YOUR FEEDBACK

ASHRAE

SEASON PASS

8 Regular Chapter Meetings

$280 Value for $215

CLICK HERE TO BUY

2024 ANNUAL SPRING GOLF TOURNAMENT

4/17/2024

BlackHorse Golf Club 12205 Fry Rd Cypress, TX 77433

SIGN UP HERE

APRIL 25 - 28, 2024

ASHRAE Region VIII CRC

Chapter Regional Conference

April 25-28, 2024

Hosted by ASHRAE Dallas Chapter

Arlington, TX | Live! By Loews Hotel

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







04/17/2023

BlackHorse Golf Club

12205 Fry Rd

Cypress, TX 77433

TEAM OF 4 - $1000

REGISTRATION	11:15 AM
LUNCH	11:45 AM
SHOTGUN START	1:00 PM

Includes alcoholic and non-alcoholic beverages, lunch, and dinner. $5 raffle tickets available for raffle prizes.
Awards for 1st, 2nd, and 3rd place will be presented.
Golf carts included with registration.
For questions, email Nick Janssen at nick.janssen@texasairsystems.com

SPONSORSHIP OPPORTUNITIES

Tailgate Sponsor	$2,600.00
Dinner Sponsor	$2,100.00
Beverage Sponsor	$1,850.00
Golf Ball Logo Sponsor	$1,600.00
Lunch Sponsor	$1,400.00
Snack Sponsor	$1,100.00
~~Gift Bag Sponsor~~	~~$1,100.00~~
Raffle Sponsor	$800.00
~~Koozie Sponsor~~	~~$800.00~~
~~Cigar Sponsor~~	~~$800.00~~
Tiger Hole Sponsor	$550.00
~~Closest to the Pin Sponsor~~	~~$550.00~~
Longest Drive Sponsor	$550.00
~~Putting Contest Sponsor~~	~~$550.00~~
Tee Box Sponsor	$300.00

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PRESIDENT'S MESSAGE

Our April 11th monthly meeting looks to be exciting as we invite our ASHRAE Student Branch members to attend in person with us. Scholarship winners will be announced, and our 2024-2025 slate of officer nominees will be announced.







- Swing into Spring with the Annual Spring Golf Tournament to support our Research/Promotion fund raising efforts. Wednesday, April 17th at Blackhorse Golf Club is sure to be an exciting time. See the RP section of the newsletter for more information on registering a team or sponsoring part of the event. Reach out to Nick with any questions or **CLICK HERE TO SIGN UP**.
- Later in April our ASHRAE Region VIII will host the Chapter Regional Conference (CRC) in Fort Worth with officers and committee chairs receiving training for their roles next year and we hope to bring home some Houston Chapter awards. 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

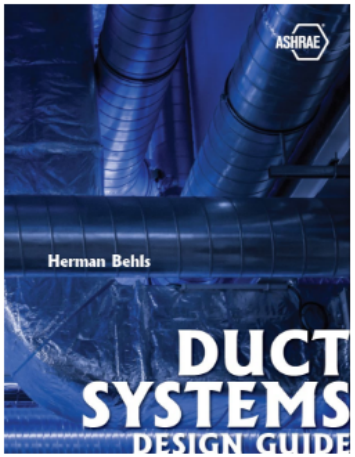


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LAST MONTH'S MEETING

ASHRAE Chapter Presentation: Duct Systems Design Guide



In December of 2002, RP-1180 was started as a funded ASHRAE research project for developing a guide for duct systems design. Many ASHRAE members spend a substantial part of their career designing duct systems. However, actual training in duct system design is often a mixture of isolated texts, commercial presentations and the tribal knowledge of the firms they work for. In the last few decades, the widespread use of computerized duct design programs led to competent designs, but without full knowledge of how and why the process works. ASHRAE saw a need for a comprehensive guide for their members that would explain the fundamentals of duct design, the accepted methods, the types and materials of duct, and the role of other parameters --- such as acoustics --- in a duct system design. This guide was intended as a textbook that could be used and understood by practitioners at all levels of HVAC system design and engineering.

Although ASHRAE had the best intentions of producing this guide as a Research Project and through an outside contract, it quickly became apparent that this project was too large for that method. The original contract was cancelled, and the task was taken up by the sponsoring technical committee, TC5.2 Duct Design and Construction. It was completed through the volunteer efforts of ASHRAE members that were passionate about the need for good duct system design. The bulk of this effort was coordinated and carried out by Herman Behls, a distinguished 50-Year Member Award recipient who, sadly, passed away in 2017 before seeing this work published. It was completed and published in 2021, and dedicated to the lasting legacy of Herman Behls.

A lot of things were happening in the world in 2021, and the members of ASHRAE may not have noticed that a research project was completed after 19 years and an important document was published by the Society. The members of ASHRAE TC5.2 are looking to introduce the ASHRAE Duct Systems Design Guide to local ASHRAE chapters and give an overview of the content and how it can be used. We understand that practitioners will not likely go back to the days of performing calculations with pencil and paper, but we believe that a greater understanding of the process of duct system design will lead to better duct system design.



Bob Reid is one of the contributors to the Duct System Design Guide, as well as a current voting member and former chair of TC5.2 Duct Design and Construction. His introduction to HVAC duct systems started in the shop and field in 1977. After graduating from Texas A&M University with a degree in Engineering Technology, his professional career began in early 1983 as a Regional Engineer for United McGill Corporation, teaching static regain design and promoting one of the first computerized design programs to use that method. In the 40 years since, he has held a number of positions with HVAC sales and manufacturing firms. He is currently doing business and product development for Spiral Pipe of Texas, a regional duct fabricator from Fort Worth, TX and Eco Support Products, a rooftop duct and equipment support manufacturer from London, Ontario.

MEETING INFO

Thursday, March 14th
11:00 AM - 1:00 PM

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

THANK YOU BOB FOR YOUR KNOWELDGE AND SUPPORT TO THE ASHRAE HOUSTON CHAPTER

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THIS 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/

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 4/8
$35.00 Member Luncheon
$40.00 At the Door

NON-MEMBER

$42.00 Early Bird - Before 4/8
$45.00 Non-Members Lunch
$50.00 At the Door

STUDENT

$0.00 Student Ticket (Bring ID)

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

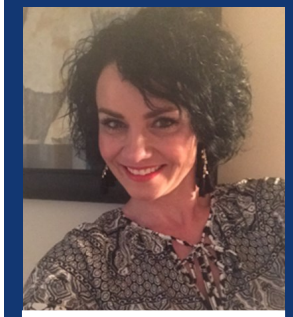
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MEMBERSHIP

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

New Members: Kendall Zolman

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

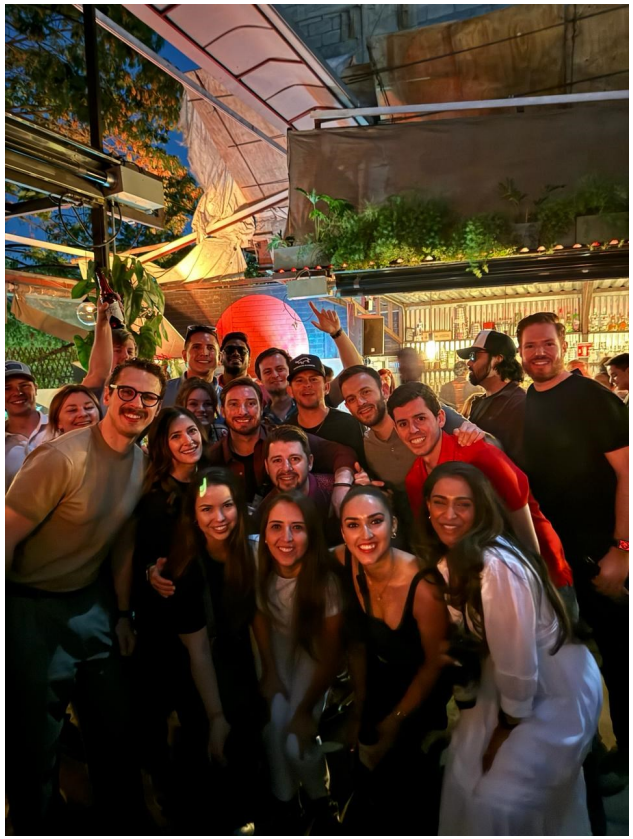
Books have been transferred from Nick Janssen to Heather Camden

TAX Last year's taxes are filed

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YEA



Tim Navarro
Pablo Marin
Mason Hall

Attended the YEA Leadership Weekend in Mexico City!

Thank you Guys for dedicating your time to represent the Houston Chapter and further develop your leadership skills!

APRIL HAPPY HOUR

SPONESOR NEEDED!

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

pablo.marin@engineeredair.com

Roessler Equipment Open House

Don't miss their upcoming Open House in on April 4th!

RSVP HERE

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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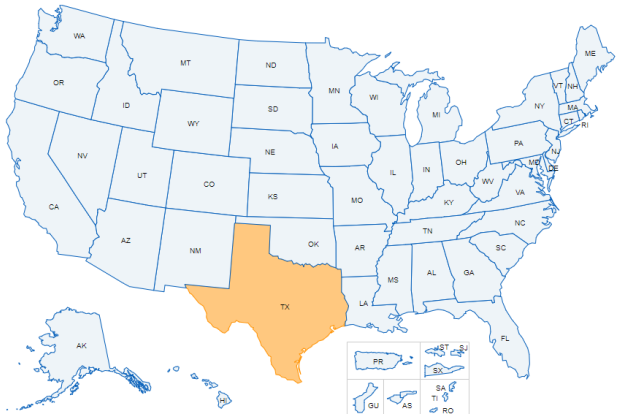
REFRIGERATION

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.

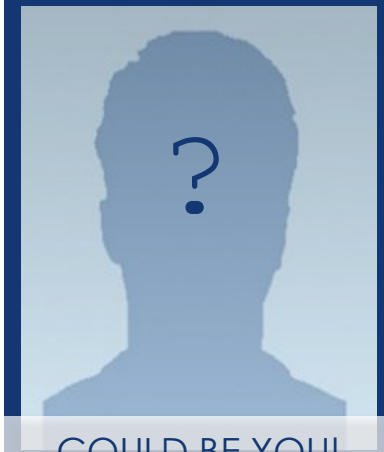
Rank	Make & Model	Powertrain	Vehicle Class	Green Score	MSRP	Est. Annual Fuel Cost*
1	Honda Accord	Gas Hybrid	Large Car	62	$33,990	$982
2	Kia Niro FE	Gas Hybrid	Compact SUV	61	$28,315	$885
3	Mitsubishi Mirage	Gas	Compact Car	59	$17,955	$1,189
4	Lexus ES 300h	Gas Hybrid	Midsize Car	59	$44,590	$1,073
5	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

March 12, 2024 Meeting Agenda

I. Approve February Meeting Minutes
Approved – 8-0-0

Attendance: Nick Janssen, Julie Thomet, Amanda Ackerman, Keith Reihl, Mason Hall, Franco Madrigali, Christy Troutman, Rachel Haines.

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

- All officers responsible for entering their own PAOE Points
  - If you do not know how – reach out to Julie

a. (Operations Team) Alan Neely + President + Historian + GAC + H&A
   i. Fellowship:
      - Michael Langton – Completing application for fellow
   ii. Follow up with Alan – Fellow Candidates and Award Winners.

b. (Programs Team) Ken Shifflett + CTTC/President-Elect + Refrigeration + Sustainability + Commissioning
   i. If you need announcements at monthly ASHRAE meetings – Send your announcements to Julie. JulieT@mjec.com

c. (Stakeholder Team) Greg Tinkler + RP/Vice President + YEA + WiA
   i. RP:
      - Nick –
        a. Poker Tourney – 60 players – Update on funds raised.
        b. April Golf Tourney – April 17, 2024 – Blackhorse Golf Club
           i. Look into sponsorship levels and team costs for Fall golf tournament.
              1. Reach out to repeat attendees to get a feel on spend levels for team sponsorship.
        c. Check in with RVC of RP.
        d. Expecting to donate up to 60% this month for PAOE Points.
   ii. YEA:
      - Next YEA event at Post Oak Icehouse – sponsored by Roessler Equipment Company.
      - Put $ in budget for upcoming years YEA Leadership Conference

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iii. WiA – Follow up on women in construction already having a meet up on March 21st – opportunity for WiA to collaborate. Did we make progress here?
- If anyone would like to be a Representative for WiA reach out to Julie Thomet and Christy Troutman
- WiA Leadership Symposium - Chicago, IL – September 2024.
  a. Would like to send a representative from the Houston team.
  b. Create Budget for this in June or July.

d. (Nuts & Bolts Team) Keith Reihl + Treasurer + Newsletter + Communications
   i. Treasurer –
   - Preparing for taxes.
   - Updating Bank info.
   - For future reimbursements – Email Receipts and required follow up phone call to treasure – 2 step authentication.

   ii. Newsletter -
   - Mason, Tim, Pablo attending YEA Leadership retreat.

   iii. Communications –

e. (Engagement Team) Mike Langton + Secretary + Membership Promotion + Student Activities
   i. Membership Promotion – Any update on Shannon is trying to secure again caleffi or Grundfos to sponsor 10 memberships? Counts toward membership promotion and participation.
   ii. Secretary-
   iii. Student Activities – BUDGET Discussion – due to inflation etc. lets look into increasing future budget for attending winter meetings.
   - A&M asked us to increase our budget for the winter conference to them.
     a. Discuss for next year budget.

III. Old Business
a. Storage unit has been transferred – We still need keys
   i. Any update on keys?
   - Still need to find keys.

   ii. Storage Unit is on monthly payment – if we need to cancel notify Heather C.
   iii. Storage Unit is near Richmond/Sugarland Area.
   iv. Need a committee of 2-3 people to hold keys – Set with backpack.
   - Nominate Storage Key Committee:
   - Reach out to Bruce F about Keys
     a. Alan N and Michael L to reach out about keys.

b. Reminder about CRC next April in Dallas – book hotel now if possible
   i. Nick - Reach out to Pam in Dallas (coordinating CRC) about room blocks.
   ii. Chair's need to attend.

c. Houston Hall of Fame – Century Club – for esteemed individuals who do something significant.
   i. Alan Neely would like to nominate Greg Tinkler into the Houston Hall of Fame because he holds a golden gavel. Discuss at March BOG Meeting
   ii. Alan N to email Nominee's to Keith R – Nominating – Nominating will bring this to the BOG for Hall of Fame voting.

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d. Chapter Officers attend Decarb 101 Training
   https://www.ashrae.org/about/decarbonization-101-a-four-part-video-series
   i. Part 1 (January) Keith, CAT, Tim, Alan N, Heather C,
   ii. Part 2 (February) Keith, Tim, Alan N, Heather C,
   iii. Part 3 (March)- ???
   iv. Part 4 (April)- ???

e. Recap of Treasurer position discussion
   i. Catherine – spoke with Joe Sanders in Chicago – did not have info for supporting Treasurer position. Society may be working on something/may have some resources.
   ii. Keith – it is up to local chapter to decide on officer position and roles.
   iii. Ken – was under impression this would be discussed at CRC.
   iv. Push this discussion to March Meeting
   v. Consensus was reached that we should make incoming secretary a "Treasurer Co-Chair" to expose them to the position prior to their year, and to assist treasurer.

IV. New Business
   a. Need to vote on making Secretary a "Assistant Treasurer" :
      i. Intent is that- in addition to secretary duties- the secretary will now assist the treasurer with their duties. This includes assisting with taxes, audits, keeping books, ensuring reimbursements are handled in a timely manner, etc. and they will be more familiar and prepared for the role.
      ii. Catherine Tinkler has agreed to rewrite our bylaws should this get approved.
      iii. Need Vote on Position:
         - Heather Motioned to make Secretary the Assistant Treasurer
            a. For: Tim, Nick, Julie, Keith, Heather
            b. Against: 0

   b. Any suggestions on members who would like to be more involved?
      i. Special Events Committee:
         - Golf Tournament
         - Poker Tournament
      ii. Co-Chairs:
         - WiA
   c. CIQ - Chaper information questionnaire:
      i. Julie is finalizing.

MEETING ADJOURNED @ 5:02 pm 3/12/24.

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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