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ASHRAE Houston Chapter's

THE HOT AIR RECORDER

78th Volume No. III

October

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
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28

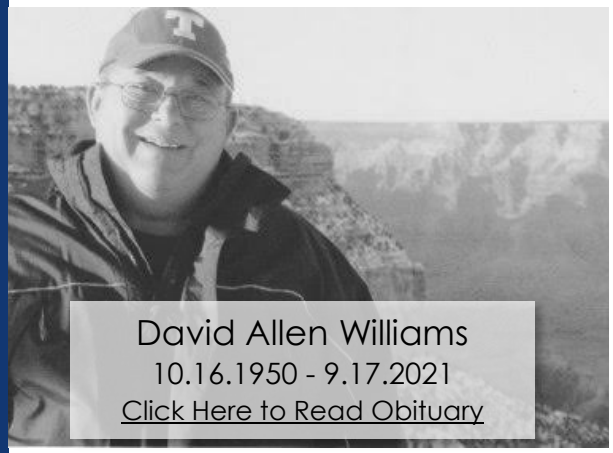
Monthly Meeting

Join us **in person** at IAH Airport or online from 4:30-6PM on October 28th as we welcome Mr. Steve Stelzer AIA, LEED AP who is the Program Director for the City of Houston to discuss modifications to the current City Codes and any new expected code adoptions. Register here.

29

DiA, YEA, & MP Happy Hour

Join Diversity in ASHRAE, Young Engineers in ASHRAE, and Membership Promotion from 3-5 PM at Spring Street Beer & Wine Garden. Bring a friend to have your name entered to win a Yeti cooler!



David Allen Williams
10.16.1950 - 9.17.2021
Click Here to Read Obituary

AEE Lone Star Chapter November 2021 IN PERSON Meeting

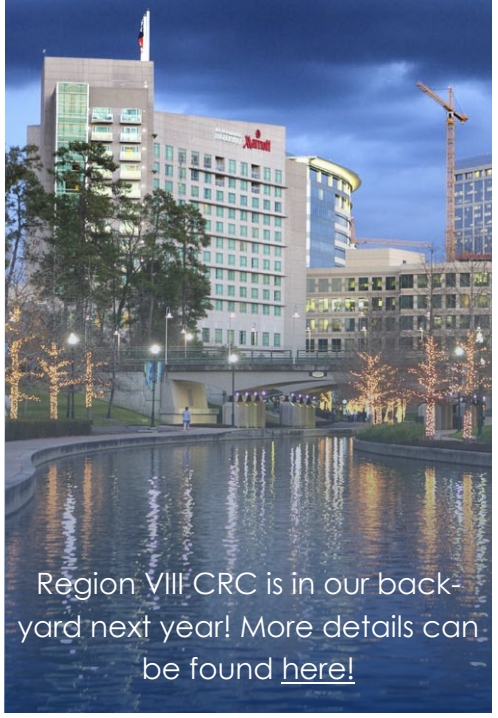
November 5th

Itinerary
11:15- Check-in & Networking
11:30- Lunch and Presentation
12:15- Short Drive to CUP
1:00 - Adjourn

Register here

REGION VIII CRC

The Woodlands, TX
April 27-30, 2022



Region VIII CRC is in our back-yard next year! More details can be found here!

2021 FALL GOLF TOURNAMENT

11.9.2021
11 AM Registration
Noon Shotgun Start

2311 North Millbend Dr.
The Woodlands, TX

THE GOLF TRAILS OF THE WOODLANDS
OAKS | PANTHER

2022 ASHRAE Winter Conference & AHR Expo

2022 LAS VEGAS in-person + virtual

1.29.22-2.2.22 | Register Here

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PRESIDENT'S MESSAGE

Greetings Houston ASHRAE chapter!

Houston ASHRAE members, the time has finally come that we are able to meet again regularly since the beginning of 2020. Although Zoom is a fantastic platform, I can say without hesitation that I am "Zoomed out" as I am sure many of you are also. With that being said, I am excited to be able to share that we were able to host our first in person meeting in September since Covid invaded our world in early 2020. I think it was appropriate that we met at our fellow AIA organization's office in downtown Houston to hear a presentation by one of the foremost experts in the city on LEAN design, Kurt Neubek, with Page. I left that meeting with several new ideas for streamlining our approach to engineering on every project that we do, and a new appreciation for the power of lean and how it applies to our design and construction industry.

Our next meeting is coming up on October 28, and I hope that you are able to join us. Please check out our website for the latest information. A Special thank you to Garrett Neubauer for all of his hard work coordinating our meetings this year. Not only is he tasked with coming up with technical topics to share, but the additional challenge this year of finding a venue each month after our home for any years, the HESS Club, closed in early 2020.

We have continued to host our annual research promotion fundraising events in person, although with some modified formatting, to great success. This fall's sporting clay event held at the American shooting centers in September was no exception. We had a strong turnout, got in some excellent shooting before hunting seasons opened, and wrapped it up with a great meal and a few awards and raffle prizes. Congratulations to the winners, but more importantly congratulations to Catherine Tinkler, Vice president and research Promotion Chair for the chapter, for organizing such a successful event.

I look forward to seeing you at the next meeting and at our upcoming fall golf tournament that is planned for November 9th. Please check out our website and this newsletter for all of your ASHRAE needs.



Josh Vanlandingham
Houston ASHRAE President
2021-2022

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MONTHLY MEETING

GET TO KNOW THE SPEAKER: STEVE STELZER



Steve Stelzer has been working for the City of Houston since 2007. He is the Program Director for the Code Enforcement Green Building Resource Center in the Houston Permitting Center at 1002 Washington Avenue. He orchestrated the original Center implementing a LEED for Commercial Interiors Gold certified renovation of a portion of the first floor of the 3300 Main Code Enforcement facility.

In the Center, Steve offers green building strategies to plans brought in by the public, develops and maintains green strategy displays and education programs, and maintains codegreenhouston.org, the green building portal of the City of Houston. Steve is certified in the Residential Energy Code and the Residential Green Code, to earn a Certified Sustainability Professional designation from the ICC. He has offered numerous trainings in the IECC for code officials and for the public. Steve is a registered architect and his technical background includes 30 years of diverse architectural firm experience in Houston. Steve has a B.S. in Architecture from Ohio State University and his MBA from the University of Houston.

CITY OF HOUSTON CODE UPDATES

This month's meeting will be in person and will not be provided on Zoom. Our speaker this month with be Mr. Steve Stelzer AIA, LEED AP who is the Program Director for the City of Houston. Mr. Stelzer will be discussing modifications to the current City Codes and any new expected code adoptions.

OCTOBER 28TH, 2021

$25– ADVANCED REGISTRATION

$30– AFTER 4PM SEPTEMBER 23RD

$35– ALL NON-MEMBERS

CLICK HERE TO REGISTER

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LAST MONTH'S MEETING



We were fortunate to welcome Kurt Neubek to our September meeting to present on LEAN Design and Construction Practices. He helped attendees gain an understanding of the breakdowns with current project delivery methods, discover the goals and benefits of implementing Lean. He educated the audience on the Foundation of Lean as Six Tenets and how to identify the Eight Wastes as relevant to design and construction. Kurt emphasized that LEAN is a shift in thinking and behaviors leading to high-performing teams.

Implementing LEAN practices and tools will result in increased collaboration and improved project outcomes. Attendees could walk away from the meeting with a great strategy for making their construction projects more efficient, and how to harness the power of LEAN in their everyday work lives.

Be sure to check the meeting page for slides!

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MEMBERSHIP

THINKING OF JOINING OR RENEWING? CHECK OUT THESE RESOURCES:

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!

MEMBERSHIP BENEFITS FLYER

Click here for a flyer that includes a summary of membership benefits by grade.

STUDENT MEMBERSHIP BROCHURE

This brochure provides a description of all resources available for ASHRAE student members. This is a great brochure for recruiting new members at existing student branches or for the formation of a new student branch.

SUPPORT MY ASHRAE RENEWAL

Most employers are happy to support involvement in a professional society like ASHRAE. Here's a sample email to get your boss on board with supporting your new membership renewal.

MEMBERSHIP GUIDE

Click here for an up-to-date overview of all benefits associated with joining the Society. This reference is a great tool for members and potential members. Flip through the Membership Guide.

YOUNG ENGINEERS IN ASHRAE GUIDE

This guide highlights the benefits of ASHRAE for a young professional member highlighting programs and services created specifically for ASHRAE members 35 and younger.

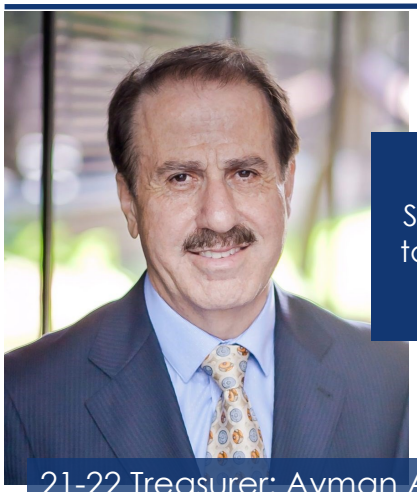
SUPPORT MY ASHRAE MEMBERSHIP

Most employers are happy to support involvement in a professional society like ASHRAE. Here's a sample email to get your boss on board with supporting your new membership.

Please welcome our new members: Juan Antonio Cornejo, Linda K Lauver, Richard Hill, Fuat Baydogan Pe, Hao Li, Kenneth Hightower, Frank Garcia, Michael Karlin

Join or renew through www.ashrae.org/home. If you have any questions, contact membership@ashraehouston.org

TREASURER



21-22 Treasurer: Ayman Ashkar

It was great seeing ASHRAE members in-person for the first time in a while at our September meeting. We are in good financial standing and plan to file our annual taxes before the November deadline. Also, the board has approved the 2021-2022 fiscal year budget that includes the CRC conference in Houston early next year.

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Thank you to everyone who came out and made our September HH a success!





DIA

Welcome to Diversity in ASHRAE!

ASHRAE is excited to kick off the new Diversity In ASHRAE group. DIA will focus on expanding and celebrating all minority groups in ASHRAE. We are looking for people interested in helping us cultivate new ideas for events and encourage engagement.

We will be having a joint event on Friday October 29th from 2 PM–5PM alongside Young Engineers in ASHRAE and Membership Promotion. Please come out and show your support! If you bring a friend, you'll be entered in a raffle to win a Yeti cooler.

Please feel free to contact me, Krista Villanueva or Lauren Ramos, with any questions or suggestions!

Kvillanueva@gulfcoastboiler.com | lauren.ramos@dialecticeng.com

KRISTA VILLANUEVA





LAUREN RAMOS

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GRASSROOTS GOVERNMENT

2021-2022 GRASSROOTS GOVERNMENT ADVOCACY CO-CHAIRS

KENNETH SHIFFLETT



KEITH REIHL



EIA PUBLISHES RESULTS OF BUILDING CHARACTERISTICS IN COMMERCIAL BUILDINGS ENERGY CONSUMPTION SURVEY

The U.S. Energy Information Administration (EIA) has released the building characteristics results from their 2018 Commercial Buildings Energy Consumption Survey (CBECS). The survey covers an estimated 5.9 million U.S. commercial buildings and includes data tables on the number of workers, ownership, and occupancy, structural characteristics, energy sources and uses, energy-related building features, among other items. The release of the CBECS is critical as its data are used for building energy benchmarking, forecasting, policy development, and Energy Star (as the foundation of its rating system targets). Click here to learn more.

Don't forget to check out ASHRAE's Government Affairs page. There are landing pages for ASHRAE position documents on issues, a newsletter sign up, advocacy tool kits, among others.

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

Look forward to the upcoming 21-22 year.

Keith & Ken

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REFRIGERATION

EFFECT OF COVID PANDEMIC : BOOMING DEMAND FOR TEMPERATURE CONTROLLED WAREHOUSES

SUBMITTED BY: MANUCHEHR MEHDIZADEH, REFRIGERATION CHAIR-ASHRAE HOUSTON CHAPTER 2020-22

In March of 2020 when WHO officially announced the start of the COVID-19 pandemic, the world was taken off-guard with no plan in sight. This is where the cold chain industry rose to the worldwide challenge in handling sudden changes in market demand to manage the burden of food distribution, spoilage and accessibility. An effective cold chain not only prevents food from rapidly diminishing in value, but in extreme emergencies also provides the needed infrastructure to preserve, store and keep the food supply flowing across the globe.

During the current pandemic, developers and refrigeration contractors who focus on cold chain industry concur in the growing demand and interest in cold store warehouses where the business driver is to build, invest, buy or acquire in this sector, despite its exorbitant cost of construction to that of conventional warehouses. Supply and demand including investment and development has always been very tight in this industry, however during the pandemic, overnight demand for cold stores at both new construction as well as massive retrofitted existing age-old facilities are said to have grown by up to 40%.

Increasing demand for cold storages at the last-mile stage of distribution – that is, near where people live, seemed already happening before the pandemic, but accelerated when lockdown orders shut restaurants and food service operations. Therefore, instead of building general cold store at remote locations (often termed as 'Invisible Industry') before the pandemic, many cold store warehouses are now being built in population growth centers where food products can readably be refrigerated and stored under the same roof.

This trend in the global cold store construction market has also been fueled by the shift in consumer eating habits from dining out and grocery purchases to eating from their refrigerator's frozen or fresh perishable and ready to serve food in their own homes. And then theirs's the growing number of consumers motivated to avoid crowds, who have turned to on-line or e-commerce grocery shopping for faster accessibility to perishable food.

Building a CEBA-approved (formerly known as the International Association for Cold Storage Construction) cold store space can cost up to $150 per square foot depending on specialized construction elements, system feed, regulatory issues, project management and sustainability considerations. In addition, this type of refrigeration need has led to the demand in skilled and knowledgeable professionals who can design/build/operate the build-to-order facilities.

Technological advancement is also playing a major role in how these new facilities are being built to improve the efficiency of food supply storage and its distribution. Examples include IoT sensors that monitor food temperature and communicate the data to cloud-based analytics dashboards. Artificial Intelligence (AI) is then used to correlate data from various sources such as power cost, weather, distribution logistics, cooling capacity and schedules to provide the optimum storage and distribution infrastructures. There's also the advancement in tracking and warehousing, tighter temperature control to improve shelf life, and performance tweaks to reduce operating costs that are impacting the operational aspects of the refrigeration systems in the cold storage market. Safety regulations and manufacturer's quality standards are also impacting this movement where cold storage facility developers are maximizing their output with the use of robotics, PLC systems, intelligent controls, real time monitoring, rapid motorized doors, thermal insulation energy, automated material handling and high-speed conveyor systems. There's also been a demand in energy efficient systems operating with low cost inorganic refrigerants like natural hydrocarbon-based refrigerants such as NH3 and CO2 due to their zero GWP & ODP. Last but not least OSHA's PSM and EPA's RMP also has an impact by their requirements of using low ammonia charge packaged pre-engineered refrigeration system where less field piping are needed and where ammonia can be contained in the MER (Mechanical Equipment Room).

While reviewing the public cold store facilities – pre-pandemic – for 52 countries IARW International Association of Refrigerated Warehouses (IARW) reported that with an annual global food production rate of 6.5 billion tons, ~600 million cubic meters of refrigerated warehouse space (~ refrigerated storage of 150 million ton food products) has been constructed. For the same period the global population is said to need over 7000 million cubic meters of temperature controlled warehouse (TCW) space (~refrigerated storage of 1750 million ton of food products), in order to be prepared for any unforeseen global catastrophic event such as drought, water shortage or another pandemic that may cause restrictions on global food growth, modern packaging and its distribution method.

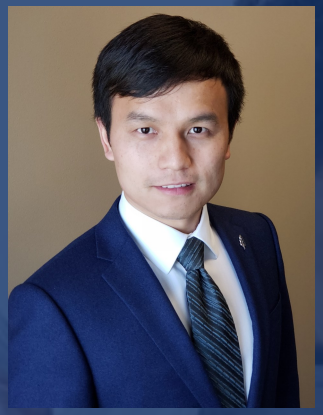
It is hoped that the COVID-19 pandemic will be curtailed in the near future and the growth of cold store facilities will continue until supply meets demand thereby leading to faster and more efficient food distribution and storage leaving a positive impact on neighborhoods and boosting local economies.

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STUDENT ACTIVITIES

STUDENT ACTIVITIES CO-CHAIRS



JIAJUN "FRANCIS" LIAO



ELMER WHITEHEAD

Student Activities Updates

Be mindful that the deadline for the ASHRAE Society Scholarships application is December 1, 2021. We encourage all students to apply.

https://www.ashrae.org/communities/student-zone/scholarships-and-grants/scholarship-program#criteria

The application for *Undergraduate Equipment Grants* is due on December 15, 2021.

https://www.ashrae.org/communities/student-zone/scholarships-and-grants/about-undergraduate-program-equipment-grants

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BOG MINUTES

ASHRAE Houston Chapter

September 23, 2021 BOG Meeting
3:00 pm
Zoom / In-Person meeting

Attendees: BoG and Chairs
Board of Governors Date: September 23, 2021
Call to order at: 3:00 PM

I. Meeting Attendees: Julie T., Ken Shifflett, Keith Reihl, Mike Langton, Josh Vlandingham, Rachel Haines, Terry Connor, Bruce Flaniken, Greg Tinkler, Garrett Neubauer, Nick Janssen, Ayman Akshar

II. President – Josh Vanlandingham

III. Approve the September 2nd Meeting minutes - Approved

a. Please contact your RVC no later than the 15th every month. Copy to Josh and Nick.

Position	Officer	MBOs	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
President	Josh Vlandingham											
CTTC	Garrett Neubauer											
Research Promotion	Catherine Tinkler											
Membership	Shannon Yancey		X									
Treasurer	Ayman Ashkar											
Student Activities	Francis Liao											
YEA	Sydney Foreman											
GAC	Keith Reihl/Ken Shifflett		?									
Newsletter	Julie Thomet											
Historian	Bruce Flaniken											
Refrigeration	Manuchehr Mehdizadeh											
Electronic Communication	Rachel Haines											

b. Goals:
   i. Student Activities: Start the Rice UStudent Chapter – Update Below
   ii. Membership: In crease new active members by _____ from 2020-2021 membership.
   iii. Research Promotion: $80,000. Stretch is $100k+
   iv. Diversity: *discuss*

IV. Start targeting your PAOE** points for the year please.

a. See emailed PAOE for requirements, how-to, etc.

b. 2020-2021: Houston PAOE = 19,453 points

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Chapter Operations											
Sustainability											
Chapter Technology Transfer											
Electronic Communications											
Government Affairs											
Historical											
Membership Promotions											
Research Promotions											
Student Activities											
YEA											
TOTAL (Stretch Goal 20,000 points)											

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c. Photos to info@ashraehouston.org Is Jack monitoring this inbox?
d. ASHRARE Values - Discuss
e. Items to discuss during the general meeting?
    i. Upcoming meetings
    ii. Membership

V. President-Elect and CTTC Chair – Garrett Neubauer
a. Next meeting: IAH 4:30-6 pm. Ample parking. Treebeards for catering (future).
b. Upcoming meetings and events:
    i. Meeting focused on membership and diversity potentially on Oct. 28th – Updates?
    ii. November 18th meeting – at Kirksey possibly
        1. Speaker – Paul Stuard with DesertAire
    iii. Student Night (March 2022) – Updates?
    iv. Past President's Night (1/20/2022) – Avoid conflict with EXPO in Vegas.
        1. Suggestion to move this meeting one week earlier due to the EXPO
    v. 2/24/2021, 3/24/2022, 4/28, 5/26

VI. Vice President and RP Chair – Catherine Tinkler
a. Annual Sponsors/Sponsorship update
    i. Annual Sponsors/Sponsorships. Have 5 thus far: 2 platinums, 1 gold, 1 bronze…
        1. TAS paid – Updates
b. Upcoming Events:
    i. Clay Shoot (Sept. 10th) – Update/recap (unknown as of this meeting – Catherine not in attendance)
    ii. Golf Tournament – 11/9/2021, Golf Trails of the Woodlands
    iii. Other Events?
c. Full Circle Status – Due Nov. 15th $150 donation from board members

VII. Treasurer – Ayman Ashkar
a. Account balances - discussed
b. Audit – set for 10/1/2021
    i. Get list from Garrett for past members
c. Taxes – Due 11/15/2021. Don't want to have to file for an extension.
    i. Up to $2,175 for cost from CPA to file taxes
    ii. Motion made by Bruce, and approved to agree to the CPA's proposed fee.
d. Budget for 2021-2022 approved on 10/2/2022.

VIII. Secretary – Nick Janssen
a. Star Chapter access to print meeting nametags (various types of attendees) – not ready for today's meeting.
b. Post-meeting minutes on Houston Basecamp and to Julie for Newsletter

IX. Membership – Shannon Yancey (not in attendance)
a. Current Houston chapter membership status
b. Plans for membership committee for this year
c. Coordinate with Garrett on which meeting to have membership presentation - Update
d. New member sponsorship

X. Student Activities, K-12 – Francis Liao, Elmer Whithead (not in attendance)
a. New Student Chapters – Update
b. HCC chapter is registered, but they are not active.
c. TSTC has not responded to us since they initially reached out express interest in becoming registered.
d. TAMU student design competition – TAMU asked us to sponsor this year. Update
    i. Discussion and Vote on TAMU sponsorship
    ii. $6000 request for TAMU Student Chapter Support – Discussion. Bruce mentioned that we should keep the donation at the existing level of $6,000.
        1. Bruce made motion, Greg seconded the motion to approve $6,000 to TAMU for chapter support. All in attendance approved the motion. No opposed.
e. Discuss when we will need/want to attend student chapter meetings

XI. Historian – Bruce Flaniken
a. Will submit MBOs and PAOE by the end of this month.
b. Will write some articles for Julie for the HAR to get PAOE points.

XII. YEA - Sydney Foreman (not in attendance)
a. Plans for upcoming year – October happy hour combined with Diversity and Membeship
b. Upcoming happy hour update – McEntyres Downtown 9/30/2021 upcoming happy hour sponsored by LG.

XIII. Diversity in ASHRAE – Krista Villanueva / Lauen Ramos (not in attendance)
a. Society view on diversity
b. Plans for upcoming year

XIV. PAOE – Terry Connor
a. Update PAOE status
b. 2021-2022 goals? Minimum, PAR, and Goal levels.
    i. Terry to share proposal for goals with BOG after the meeting
    ii. Terry noted that there is now a category for YEA
c. Reporting protocols and help

XV. Refrigeration – Manuchehr Mehdizadeh (not in attendance)
a. Plans for upcoming year

XVI. Sustainability / Energy Modeling – Steve Stelzer (not in attendance)

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a. Meeting and discussion on new updates to ASHRAE position documents

XVII. Newsletter – Julie Thomet
a. Update- Newsletters- due date for articles
i. Julit noted that content submission has not been good. Wants to receive content by 21st of each month.
b. Members asking for link for the recording for past meetings. Garrett to provide these.
b. Photos in the HAR

XVIII. Webmaster and Social Media and Electronic Communications Chair – Rachael Haines
a. Jack is rolling off. Needs to get Rachael login access to Star Chapter.
b. Home page update - none
c. Officers update - none

XIX. Honors and Awards – Alan, Bruce
a. Update, Group had a meeting at the end of January
b. Award submissions for projects…what do we need to know?

XX. Directory Chair – Greg Tinkler
a. Status-to be published to members by ?
b. What do you need?

XXI. Grass Roots Government Advocacy – Keith Reihl, Kenneth Shifflett
a. Make presentation at March meeting?
b. City of Houston getting ready to approve 2015 codes for "everything"

XXII. Commissioning Chair – David MacLean (not in attendance)

XXIII. Other business:

XXIV. Meeting called to close by 3:49 PM

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ROSTER

Position	Full Name	Phone	Email
Chapter President	Mr Josh Vanlandingham, PE	(713) 515-3726	jjvanham@gmail.com
Chapter President Elect	Mr John G Neubauer, PE	(713) 871-8484	gneubauer@pagethink.com
Chapter Vice President	Catherine A Tinkler	(713)203-9267	ctinkler@foscd.com
Chapter Treasurer	Mr. Ayman Ashkar	(713) 914-0888	aashkar@dbrinc.com
Chapter Secretary	Mr. Nick Janssen	(832) 342-9276	Nick.Janssen@texasairsystems.com
Chapter Board of Governors	Greg Tinkler	(713)658-2206	gtinkler@yahoo.com
Chapter Board of Governors	Mr Bruce L Flaniken, PE	(832)473-1989	BLFlaniken@houstonmethodist.org
Chapter Board of Governors	Mr Kenneth Shifflett	(713)828-2329	kshifflett@distribaire.com
Chapter Board of Governors	Mr Michael Langton, PE	(832)867-7149	mlangton@langtonenergy.com
Chapter Board of Governors	Mr Keith H Reihl, PE	(713)459-1044	reihl@swbell.net
Chapter Delegate	Mr John G Neubauer, PE	(713) 871-8484	gneubauer@pagethink.com
Chapter Alternate	Catherine A Tinkler	(713)203-9267	ctinkler@foscd.com
Chapter Technology Transfer Chair	Mr John G Neubauer, PE	(713) 871-8484	gneubauer@pagethink.com
Chapter Commissioning Chair	Mr David A MacLean	(713)857-6499	david.maclean@mcmaccx.net
Chapter Grassroots Government Advocacy Co-Chair	Mr Keith H Reihl, PE	(713)459-1044	reihl@swbell.net
Chapter Grassroots Government Advocacy Co-Chair	Mr Kenneth Shifflett	(713)828-2329	kshifflett@distribaire.com
Chapter Historian	Mr Bruce L Flaniken, PE	(832)473-1989	BLFlaniken@houstonmethodist.org
Chapter Honors and Awards	Mr Robert (Alan) Neely	(281)432-9864	alan.neely@owenscorning.com
Chapter Membership Promotion Chair	Mr Jeffrey B Hunter	(713)939-6098	jeffrey.hunter@carrier.utc.com
Chapter Membership Promotion Co-Chair	Mrs Shannon Tawney Yancey	(281)728-1624	syancey@grundfos.com
Chapter Refrigeration	Mr Manuchehr Mehdizadeh	(832) 660-5450	mmz@roxara.com
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