ASHRAE Houston Chapter's

The Hot Air Recorder

Vol. 74
Issue 3

Know the Code- ASHRAE 90.1 Past, Present and Future Overview

Please join us in welcoming Ron Jarnagin to the November 15th meeting.

Standard 90.1 is ASHRAE's flagship standard focused on energy efficiency in commercial buildings. The standard is cited in U.S. federal energy legislation and forms the basis for many of the state and local building codes. This presentation will focus on the evolution of Standard 90.1 from its inception in 1975 through the current version. The presenter will then turn attention to development of the 2010 version of the standard targeted at saving 30% more energy than the 2004 version of the standard. There will also be discussion of the 2013 version of the standard. Insights into the standards development process will be provided as well the perspective... (read more)



Ron Jarnagin



Prexy Sez

Chapter Life returned to normal in October. Chapter member attendees heard an excellent talk by Joseph Hauf P.E. about mistakes made designing and installing fire and smoke dampers in HVAC ducts. YEA had another successful... (read more)

UPCOMING EVENTS

NOV 9th
-WiA Happy-Hour-
Read More here

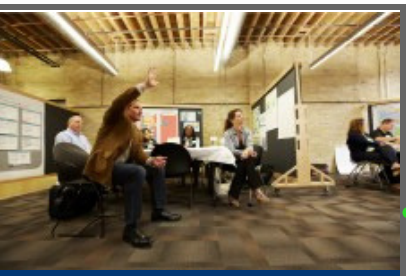
NOV 15th
-Monthly-Meeting-
Register here

NOV 17th
-Bowling-Tourney-
Register here

NOV 30th
-YEA Happy-Hour-
Read More here

NOV 30th
-Technical - - Seminar-
Register here

JAN 12th
-Shooting-Tourney-
Register here



Noise and Vibration Control for HVAC
Technical Seminar
Nov. 30th
8AM-3:30 PM

VOLUNTEERS NEEDED!

ASHRAE Annual Meeting In Houston
JUNE 2018
Click here to find out more



CLICK HERE TO RENEW YOUR **MEMBERSHIP** OR JOIN TODAY!

Hot Air Recorder

President's Message | Monthly Meeting | Previous Meeting | Tabletop Sponsors | Fundraising | Announcements | YEA | WiA | Historian's Corner | BOG Minutes | Roster

The President's Message

Chapter Life returned to normal in October. Chapter member attendees heard an excellent talk by Joseph Hauf P.E. about mistakes made designing and installing fire and smoke dampers in HVAC ducts. YEA had another successful Happy Hour and the Region VIII Historian, Dusty Stoabs, visited.

This month's shout outs include:

- Kurt McCulloch rescheduled the Sporting Clays fundraiser to January after it got washed out in September
- Ken Shifflett organized an ASHRAE distinguished lecturer for the November meeting
- Kimberly Thompson completed an audit of the 2016/17 chapter year books. This was a particular challenge due to the passing of last year's treasurer, Kevin Gardner.
- Greg Tinkler organized the chapter's finances, made sure the bills got paid and is preparing the income tax return. Since the chapter had more than $200,000 of receipts last chapter year, the IRS long form return is needed. This is a good problem.
- Josh Vanlandingham ensured name badges were available for chapter meetings.
- Jeff Hunter filled in for reception and promoted chapter membership
- Victoria Herman interviewed and prepared a biography of Jeff S. Haberal
- Keith Reihl kicked off the chapter sustainability project at several VFW Posts.
- Neal Dominick provided chapter prayers for use at meetings
- Mike Langton ensured the chapter was properly represented at the USGBC Texas Energy Summit
- Lauren Ramos and Rachel Haines Downey organized a Women in ASHRAE Event
- John Walik kept the chapter web site current
- Lauren Ramos updated the chapter's social media page

Please be sure to sign up for the Research Promotion bowling tournament. Kurt decided to try bowling in lieu of Top Golf. He added a 50/50 raffle and a 'Bourbon Grab' to maximize the fun.

I organized an ASHRAE instructor led course, Designing HVAC Systems to Control Noise and Vibration, on November 30. Be sure to look for the invitation and sign up on the chapter web site.

I look forward to seeing all of you at the November chapter meeting that features the ASHRAE Distinguished Lecturer, Ronald Jarnagin, who is speaking about ASHRAE 90.1.



Sincerely,
Bill Chalmers P.E.
ASHRAE Houston Chapter 2017-18 President

Monthly Meeting

NOV
15th

$25 Before Nov. 13th

$30 After Nov. 13th

$35 For Non Members

Click Here to Register

Ron Jarnagin Bio

Mr. Jarnagin has been involved in energy-related research and development activities for over 35 years. His background is diverse, including work in the areas of fluid flow, power plants, automotive and transportation systems, HVAC systems, energy use in buildings, smart grid activities and energy standards development. Mr. Jarnagin has served on numerous utility, government and business advisory boards, lending his expertise to solving their respective energy problems. He served on the faculty in the Department of Mechanical Engineering at the University of Florida for 10 years, and has been with Pacific Northwest National Laboratory for the past 20 years.

Mr. Jarnagin is active in standards development activities, both nationally and internationally. He chaired ASHRAE's Standard 90.1 committee for 4 years, providing the leadership to successfully complete a comprehensive revision to that standard in 1999. In addition, he chaired the International Standards Organization (ISO) TC 205, Building Environment Design. He chaired a multi-disciplinary team made up of members of four organizations that produced the first Advanced Energy Design Guide (AEDG) for Small Offices which won 3 national awards from sustainability organizations in the U.S. In addition, he served as chair or vice chair of 3 additional AEDGs. Mr. Jarnagin is active in ASHRAE, having served on the Board of Directors as a Director-at-Large, and served as an ASHRAE Vice President as well. He also served as the Chairman of ASHRAE's Technology Council, which has stewardship for all of ASHRAE's research, standards, and technical committees.

Mr. Jarnagin chaired the Sustainability Roadmap Ad Hoc committee that developed ASHRAE's Sustainability Roadmap and... (read more)

ASHRAE 90.1 Past, Present & Future

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This presentation will focus on the evolution of Standard 90.1 from its inception in 1975 through the current version. The presenter will then turn attention to development of the 2010 version of the standard targeted at saving 30% more energy than the 2004 version of the standard. There will also be discussion of the 2013 version of the standard.

Insights into the standards development process will be provided as well the perspective on standards of a previous chair of the 90.1 development committee. The presenter served as the Chair of the committee that wrote the 1999 version of Standard 90.1.

Previous Monthly Meeting



Bill Chalmers (President), Joseph Rauf (Speaker), Kenneth Shifflett (President Elect)



Kurt McCulloch (Vice President) Announcing Bourban & Bowling Event

Thank you, Joseph Hauf, for joining us for our October meeting!

The presentation was set up with the intent to be non-commercialized and code-focused on a very important and misunderstood subject. Many types of fire-resistive rated duct products are considered to achieve code compliance including; blankets, wraps or batts that are applied directly to duct work, along with coated ducts and other manufactured duct assemblies.

In order to understand the product limitations, it is important to understand how different products achieve their fire resistance capabilities. So among other things, attendees learned the basics for proper application of fire-resistive rated duct and enclosure assemblies' listings and approvals for compliance with the "symmetry testing" and "continuity" requirements [illegible] International Building Code (IBC). All products may be app[illegible] limitations of their approvals and or listings. Instructors of this semin[illegible] described how to properly apply products and review common pitfalls relating to the varied compliance approaches for the protection of HVAC systems. Particular focus was applied to life safety ventilation applications, such as stairwell and elevator shaft pressurization systems, and we examined when the distribution of HVAC duct systems may affect life safety features of the structure, such as shaft enclosure penetrations along with protection of fire resistive rated floor/ceiling assemblies.

Missed the Meeting?
Click here for presentation slides!

Tabletop Sponsors

AUGUST	OCTOBER	DECEMBER	FEBRUARY	APRIL
DistribAire, Inc. Quality HVAC Products / MILLER-PICKING	OPEN	MERRY CHRISTMAS	OPEN	Lashley & Associates, Inc.
SEPTEMBER	**NOVEMBER**	**JANUARY**	**MARCH**	**MAY**
OPEN	H.D. GRANT CO., INC. / FabricAir	PAST PRESIDENTS NIGHT	STUDENTS NIGHT	OPEN

Announcements

Volunteers needed!

- ASHRAE Annual Meeting will be held in Houston in June of 2018
- We need 32 monitors for June 24th session and 18 for each day between June 25th and June 27th.
- Monitors are to scan badges and help with any audio/video issues with any presentation.
- Volunteers will get complimentary registration ($500 value), and 3.5 to 4 pdh credits, if applicable.
- Contact Hugh McMillan at hcmc3@htt.net if interested.



Are you a member?

Click here and log in to renew today!

Click here and fill out the form to join!

Seminar- Noise and Vibration Control in HVAC

November 30th 8AM-3:30 PM

10644 W. Little York, STE 200

$250 for MEMBERS

$300 for NON-MEMBERS

$45 for presentation book

Click here to register!

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Fundraising





Clay Shoot 1/12/18

- $175.00 Single Shooter
- $700.00 Team of 4
- $2,000.00 Beverage Sponsor (1 avail)
- $1,500.00 Ammunition Sponsor (1 avail)
- $750.00 Cigar Sponsor (1 avail)
- $250.00 Station Sponsor (10 avail)

2:00 Registration Starts
2:45- Safety Meeting
3:00- Event Begins

Includes 50 targets and 2 Man Flurry, ammunition, lunch and dinner. Cocktails available after shooting is done. Mulligans will be available for purchase at the event. Up to 4 people per team

"Trust me, you can bowl!"
–Bourbon



Bourbon Grab

- Bring a bottle of bourbon to the event to participate
- Each bottle gets you one entry
- Additional raffle tickets are $20 each
- We will raffle off the bourbon in three prize packs

(size to be based on number of bottles received)

50/50 Raffle

(We take donations, draw one name as a winner of half of the money we collect)





ASHRAE Houston
Bourbon and Bowling Event

November 17 ~ 2:30-5 p.m.
Bowlmor Lanes
925 Bunker Hill
Single, $100 ~ Team of 4, $400
Register: www.ashraehouston.org

Awards
Corporate sponsorships available:

- Beverage Sponsor, $1000
- Food Sponsor, $750
- Award Sponsor, $500
- Shoe Sponsor, $500
- Lane Sponsor, $100 *(7 available)*

YEA and WiA

Young Engineers in ASHRAE

NEXT HAPPY HOUR NOVEMBER 30TH; 5:00-7:30 PM AT

BETTER LUCK TOMORROW



- Geared towards professionals under 35
- Focusing on networking and leadership skills
- Mentor-ship from other professionals
- Contact Rachel Haines (rachel.haines@dsxeng.com) or Chase Bielamwicz (chase.t.bielamowicz@jci.com) with any questions

Women in ASHRAE



NEXT HAPPY HOUR NOVEMBER 9TH AT 5:00 AT

WEIGHTS + MEASURES
RESTAURANT BAKE SHOP BAR

- Opportunities for professional development
- Expand leadership skills
- Create a network of women supporting women
- For women and men supporting women in ASHRAE
- Contact Rachel Haines or Lauren Ramos with any questions

Hot Air Recorder

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Historian's Corner

80th Anniversary

Written by Bruce Flaniken



Don't know much! The second from the left is Dr. Frederick Ernst "PAL" Giesecke founding member and First Chapter President of the Texas Chapter of ASHVE in 1937, ASHVE Presidential member 1940-41; The four other men, whom appear to be students probably from Texas A&M College, but maybe young engineers (the one on the left bears a resemblance to Dale Cooper). The second from the right is Reg. F. "CHIEF" Taylor P.E. founding member and Second Chapter President of the Texas Chapter of ASHVE in 1938, Founding member and first South Texas Chapter President of ASHVE (Later changed to Houston Chapter in 1959), Editor of the first Chapter Newsletter distributed to chapter members in October, 1944 named the Hot Air Recorder and ASHVE Presidential member 1953-54. Not sure what the event is; but the award or certificate being presented could be the Houston Chapter Charter.

ASHRAE, ASRE, ASHVE

Texas Chapter
(1937-1938)

South Texas Chapter
(1939-1959)

Houston Chapter
(1959- Present)

80th Chapter Anniversary!

Board of Governors Minutes

	Board of Governors Meeting October 18, 2017			
10.18.2017		10:00 a.m.		HESS Club
Meeting called by		Bill Chalmers		
Type of meeting		In person or teleconference (414 214 4100 Code: 67550629)		
Facilitator		Bill Chalmers		
Note taker		Bill Chalmers		
Attendees highlighted in yellow		Chase Bielamowicz, Bill Chalmers, Adam Castillo, Terry Connor, Rachel Haines Downey, Bruce Flaniken, Trey Green, John Gross, Victoria Herman, Jeff Hunter, Mike Langton, Kurt McCulloch, Alan Neely, Lauren Ramos, Kristin Schaefer, Ken Shifflett, Kimberly Thompson, Greg Tinkler, Kapil Upadhyaya, Josh Vanlandingham, John Walik, Dusty Stoab		
	President's Report			
[Time allotted]		Bill Chalmers		
Discussion				
Keith Reihl presented the VFW sustainability project. VFW district has 16 posts. Project include an energy audit of each post followed by installing upgrades. Keith is soliciting money from organizations outside of the usual RP contributions. The VFW is reviewing the proposal this weekend. Society is contributing $20,000. Keith is approaching vendors for equipment contributions. Discussion ensued regarding any political downside to supporting the VFD. Keith raised the issue of the money being handled by the chapter. Society says this is what is done by other chapters. Harvey flooded three posts. Keith presented a map of all the posts. He has volunteers to perform energy audits. Additional volunteers are welcome. Everyone should attend the first audit. Participants get an electronic copy of Guideline 0. **First evaluation is 4:30 pm October 19 at Post 8790 in Spring Branch.**				
Bill presented a proposal for conducting an ASHRAE Society Instructor Lead course on Acoustics on November 30. Bill moved the chapter commit to $3,000. Seconded by Greg Tinkler. Carried.				
Conclusions				

Action Items	Person Responsible		Deadline
Annual Audit – Done	Kimberly Thompson		31JUL17
Monthly DRC report posted to Basecamp	Bill Chalmers		15OCT17
Engineer's round table per Jeff Hunter 27JUL17 email	Bill Chalmers		31AUG17
Organize ASHRAE Acoustics Course	Bill Chalmers		30NOV17
Broadcast chapter meeting via webinar	Bill Chalmers		15NOV17

	CTTC Chair/President Elect Report	
5 Minutes		Ken Shifflett
Discussion		
Keith Reihl says the city is considering adopting International codes. Consider a code comparison as a chapter meeting.		
Conclusions	Sent RVC and email in August & September.	

Board of Governors Minutes

Action Items	Person Responsible	Budget/PAOE	Deadline
CTTC - DL Visits – Remaining DL Pool on a first come first served basis. One used in September and tentatively another speaker in April. He is also investigating Pam Duffy for Student Night. Pursuing Ron Jarnigan for November. Investigating casino night for past presidents and a guest speaker. Kurt is organizing a wine auction for past presidents night. Alan recommended seeking donations that can be purchased by winnings..	Ken Shifflett	Yes/	30NOV17
Regional Technology Awards	Ken Shifflett	No/	15MAY17
Attend President Elect training in February, 2018	Ken Shifflett	No/CO45	
Chapter nominating committee report completed with all positions filled.	Ken Shifflett	No/CO47	30APR18

	Research Promotion Chair/Vice President Report
[Time allotted]	Kurt McCulloch
Discussion	Bowling tournament is November 17. Please encourage attendees.
Conclusions	Sponsorship receipts to date are $78,000 plus $15,000 from the Richard Burr. Kurt's goal is $130,000

Action Items	Person Responsible	Budget/PAOE	Deadline
Full Circle – be aware that Region has an award for collecting >$100/person - **Everyone give Kurt a check for $100 made out to ASHRAE Research** - Note that the money to be allocated for scholarship fund Needs checks from Ken and Josh.	Kurt McCulloch	No/ RP13 & RP23	15NOV17
30% of Goal Bonus – Requesting check from Greg.	Kurt McCulloch	No/RP14	31DEC17
Meet or exceeding scholarship goal	Kurt McCulloch	Yes?/RP16	15NOV17
Order Honor Roll certificates – Kurt submitted the form.	Kurt McCulloch	No/RP19	15OCT17
Volunteer Committee Workshop	Kurt McCulloch	No/RP21	15OCT17
Recognize Honor Roll contributors – November meeting	Kurt McCulloch	No/RP19	31DEC17
2 – RP promotional chapter meetings after 31DEC16	Kurt McCulloch	No/RP20	31MAY17
Reach RP Goal	Kurt McCulloch	No/ RP10	15JUN18

	Treasurer Report
[Time allotted]	Greg Tinkler
Discussion	Ken and Kimberly must transfer banking information and passwords to Greg.
Treasurer should be kept for seven years. Ken, Kimberly and Bill bring records from their term and give to Bruce for storage in the locker.	
Greg is working on the budget and accountings.	
Conclusions	

Action Items	Person Responsible	PAOE	Deadline
Tax filings are due on 11/15	Greg Tinkler		15NOV17
Track all costs for direct student expenditures.	Greg Tinkler	SA2	30JUN18
Establish chapter budget – Collect budgets from committee chairs.	Greg Tinkler		30NOV17
Pay Region Fund Contribution – Keith sending invoice in October. $3/member.	Greg Tinkler		???

Board of Governors Minutes

	Secretary's Report	
[Time allotted]		Josh Vanlandingham
Discussion	People are confused by the various ASHRAE leadership opportunities. Dr. Bahnfleth provided some clarification.	
Conclusions	Josh is working through the leadership programs and is finding suitable candidates.	

Action Items	Person Responsible	Budget/PAOE	Deadline
LEADRS program attendee https://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/ashrae-region-leadrs-program Bill explained that this is a region program. Chapter should recommend people for shadowing people at SAM in 2018. Recommendations: Rachael and Chase. Kimberly emailed potential candidates.			
Chapter Leadership Academy in the spring of 2018 – 3 Attendees		Yes/CO1	31DEC17
Prepare 6 press releases during the chapter year		Maybe/CO17	30JUN18
Upgrade Society status from Associate to Member			31DEC17

	Student Affairs Chair	
[Time allotted]		John Gross/Terry Connor
Discussion		Kristen and Terry are looking after K-12 STEM. John is primarily responsible for student affairs.
	John and Mike Langton are the Capstone mentors. Steve Redding is sending a contact at the Boy Scouts for STEM.	
Conclusions	TAMU Student Chapter Submitted a request for $1,180 to attend the Winter Annual Meeting. Motion is needed approving the expenditure. Kimberly seconded. Ken notify John about the $500 region fund.	

Action Items	Person Responsible	Budget/PAOE	Deadline
For planning/goal setting session with RVC – has not contacted Kristen. Planned to work with Terry and Kristen	John Gross	No/SA32	1OCT17
Lamar Student Chapter Dedication Ceremony - Ongoing	John Gross		31DEC17
Are students being sponsored to attend WAM? If so, what is the chapter subsidy? See motion for $1,180.	John Gross	500 pts. For $5k/ SA6	31DEC17
ASHRAE New Face of Engineering – College Edition applicants	John Gross		1NOV17
Grants/Scholarships	John Gross	50 pts. for minimum $100 / SA7	1DEC17
Student Activities Achievement Award Nomination	John Gross	No/SA35	30DEC17
Student Design Project Comp.	John Gross	$6000?/SA21	4MAY18
K-12/STEM Leadership Award - all Chapter Officers plus the K-12/STEM Champion to attend and participate in at least one K-12/STEM event (see end of PAOE points)	John Gross		30MAY18
Nominate Student Branch Advisor of the Year Award Nomination.	John Gross	No/SA36	10JUN18
Joint STEM programs with Outreach for the Society of Women Engineers – Houston Area	Kristin/Terry	Maybe/S1	30JUN18
Annual Meeting STEM program. Kristen Shaeffer is organizing a STEM camp for children associated with the Annual Meeting attendees. This is her personal initiative that must be monitored by the chapter.	Kristin		30JUN18

Board of Governors Minutes

	Young Engineers in ASHRAE (YEA) Chair	
[Time allotted]		Chase Bielamowicz, Rachel Haines Downey
Discussion		
	Next happy hour is on October 18 at Bier Garten.	
Conclusions		YEA members are asking of the chapter is sending people to attend HVAC Fundamentals training. Chapter provided scholarships in previous years. Rachael prepare a budget and nominees

Action Items	Person Responsible	Budget/PAOE	Deadline
ASHRAE New Face of Engineering – Individuals must apply. It is open to engineers but no vendors	Chase/Rachel		1NOV17
YEA Leadership U -	Chase/Rachel	Yes/CO30	22JAN18
YEA Technical Weekend	Chase/Rachel	Yes/CO30	24MAR18
YEA Leadership Weekend (Spring – Denver, CO; Fall – TBD) Consensus is that the chapter pays for expenses not covered by Society.	Chase/Rachel	Yes/CO30	3MAR or 13OCT
YEA Leadership Weekend 2.0 – Only applies to participants in Leadership Weekend	Chase/Rachel	Yes/CO30	May 2018?
Issue a set of MBOs to YEA Regional Coordinator		No/CO46	31OCT17

	Electronic Communications Chair	
[Time allotted]		Mitchell Campbell/Lauren Ramos/John Walik
Discussion		Dan Owens is the region newsletter judge. John is concerned is concerned about committee reports. Bill
	And John will investigate.	
Conclusions		

Action Items	Person Responsible	Budget/PAOE	Deadline
For planning/goal setting session with RECC, Pam Duffy	Mitchell/Lauren	No/EC8	1OCT17

	Reception Committee	
[Time allotted]		Trey Green
Discussion		
Conclusions		

Action Items	Person Responsible	Budget/PAOE	Deadline
Identify any student chapter members or faculty chapter member attendees for PAOE	Trey	No/SA2	
Identify any IAQA members who attend chapter meetings	Trey	No/CO25	
Track visitors at chapter meetings to earn PAOE points.	Trey	No/MP8	

Board of Governors Minutes

	Membership Promotion Committee	
[Time allotted]		Jeff Hunter
Discussion	Jeff reviewed his membership promotion report.	
Jeff moved that chapter reimburse two new members ($256 x 2 = $512) for their upcoming year's membership based upon a lottery. Recipient must attend at least one chapter meeting. Greg Tinkler seconded. One drawing will occur in the fall and one in the spring. Carried.		
Membership promotion requires 10 minutes in the meeting for PAOE points. Ken agreed to make the time available in November. Grundfos is sponsoring 10 new members – 5 student and 5 regular members. Money will be donated to the chapter who will pay the dues. Jeff will collect applications and create a method of evaluating applicants. Everyone is eligible, but consulting engineers will receive preferential. Jeff send the board the application form for approval.		
Conclusions		

Action Items	Person Responsible	PAOE	Deadline
Did chapter student membership exceed that of previous year?	Jeff Hunter	SA5	30JUN18
Submit MBOs	Jeff Hunter		Done

	Historian	
[Time allotted]		Victoria Herman - Historian/Bruce Flaniken – Historian Emeritus
Discussion		
	MBO submitte and 2000 points are being pursued.	
	Dusty Stoab is visiting the chapter's October meeting.	
Conclusions		See

Action Items	Person Responsible		Deadline

	Webmaster/Newsletter	
[Time allotted]		Julie Thomet/John Walik
Discussion		
Julie published her first newsletter. It needs a few modifications to satisfy Society and Region. The format was well received.		
Conclusions		

Action Items	Person Responsible	Budget/PAOE	Deadline
Ensure RECC PAOE point requirements are met to Pam Duffy's satisfaction.	John Walik	No/EC10,11,12	30SEP17
Upload newsletter to CRC Basecamp site every month	Julie/John	No/No	Monthly
Upload Roster to CRC Basecamp site	Julie/John	No/No	1MAR18
Ensure meeting attendance for each month is included in the HAR.	Julie/John	No/No	Monthly

Board of Governors Minutes

	Awards and Honors	
[Time allotted]		Alan Neely
Discussion		Potential fellow nominees – Joe Moravek, Jim Buckley, Carl Crow and ??? Alan and Bruce provide names.
	Kimberly service awards. Bruce says Society will run a report of potential candidates. Alan investigate Damon for Hall of Fame.	
Conclusions		

Action Items	Person Responsible	Budget/PAOE	Deadline
Chapter Service Award, Regional Award of Merit, John F. James International Award	Alan Neely	No/CO35	CRC 2018
Chapter Program Star, Dan Mills Tech. Award, Don A. Siller Refrigeration Award	Alan Neely		30SEP17
Grassroots Government Advocacy Award – James Wolfe is the society	Alan Neely		30SEP17
YEA – Award of Individual Excellence. Rachael is being nominated. Regional YEA chair must make the nomination.	Alan Neely		1NOV17
Honorary Member, Fellow, F. Paul Anderson, Dist. Public Service, Hall of Fame, Pioneers of the Industry	Alan Neely		1DEC17
Louise/Bill Holladay Distinguished Fellow, Andrew T. Boggs Service Award, DSA & ESA	Alan Neely		1MAY176

	CRC 2020 Organization	
[Time allotted]		Bruce Flaniken
Discussion		Alan provided an update. The committee is investigating locations.
	Work in progress. Location potential is Woodlands, downtown or near the Galleria.	
Conclusions		Board voted on 6JUL17 to host 2019/20 CRC. Bruce volunteered to chair the host committee.

Action Items	Co-chair	Co-chair	Deadline
Select a co-chair – Mike Donovan, Kevin Murphy and Alan Neely volunteered	Bruce Flaniken	Alan Neely	31AUG17

Roster

ASHRAE Houston Chapter Roster		
Position	**Name**	**TelePhone**
President	Bill Chalmers	(713) 898-2874
President Elect	Kenneth Shifflett	(713) 266-1761
Vice President	Kurt McCulloch	(713) 266-3900
Treasurer	Greg Tinkler	(713) 871-8484
Secretary	Josh Vanlandingham	(713) 548-8900
Past President 2016-2017	Kimberly Thompson	(832) 328-1010
Reception	Adam Castillo	(713) 266-3900
Attendance	Trey Green	(713) 782-2701
Board of Governors	Bruce Flaniken	(713) 441-9624
Board of Governors	Alan Neely	(281) 432-9864
Board of Governors	Kimberly Thompson	(832) 328-1010
Board of Governors	John Walik	(713) 462-8888
C.I.C Delegate	Bruce Flaniken	(713) 441-9624
C.I.C Delegate	Keith Reihl	(713) 459-1044
C.R.C Delegate	Kenneth Shifflett	(713) 266-1761
C.R.C. Alternate	Kurt McCulloch	(713) 266-3900
Chaplain	Neal Dominick	713 340-5389
Energy Code	Kapil Upadhyaya	(713) 426-7508
Grass Roots Advocacy	Michael Langton	(713) 462-8888
Historian	Bruce Flaniken	(713) 441-9624
Historian Emeritus	Bruce Flaniken	(713) 441-9624
Historian	Victoria Herman	(281) 646-2400
Honors & Awards	Alan Neely	(281) 432-9864

Roster

ASHRAE Houston Chapter Roster		
Membership Promotion	Jeffrey Hunter	(832) 418-3833
PAOE Administrator	David Schurk	(832) 328-1010
Photographer	Skip Williams	(713) 782-2701
Photographer	Valerie Roberts	(281) 500-8136
Professional Certifications	Alex Roessler	(713) 782-2701
CTTC Chair	Kenneth Shifflett	(713) 580-8817
Refrigeration	Tony Summers	(713) 939-6095
Resource Promotion	Kurt McCulloch	(713) 266-3900
Roster & Product Directory	Erin Schroeder	(832) 328-1010
Social Media	Mitchell Campbell	(713) 782-2701
Social Media	Lauren Ramos	(713) 783-7707
STEM Champion	Terry Conner	(713) 936-1132
Student Activities	John Gross	(713) 871-8484
Student Activities	Kristin Schaefer	979 595 6150
Sustainability	Kapil Upadhyaya	(713) 426-7508
Women in ASHRAE	Rachel Haines Downey	(832) 328-1010
Women in ASHRAE	Lauren Ramos	(713) 783-7707
Young Engineers In ASHRAE	Chase Bielamowicz	(832) 684-5934
Young Engineers In ASHRAE	Rachel Haines Downey	(832) 328-1010
Editor, Hot Air Recorder	Julie Thomet	(713) 936-1184
Webmaster	John Walik	(713) 830-4523