American Society of Heating, Refrigerating & Air Conditioning Engineers, Inc.

The Hot Air Recorder

The Houston Chapter

Golden Gavel '72-'73 James Beach
'12-'13 Alan Neely

Jack Thompson Award '10-'11 Keith Reihl
'12-'13 Alan Neely

President's Message



As my last official duty as president this year, I want to say a special thank you to all of our volunteers that worked this year to make our chapter better – we truly couldn't have made it without all of you. Thanks to all of our sponsors as well. I look forward to the future for the Houston chapter as we are continuing our long line of passionate volunteers wanting to be involved. Although we always have room for more folks to help out with various duties – don't be shy.

As many of you have already heard, Houston is hosting the ASHRAE Annual meeting in June 24-27, 2018. We will be submitting various calls for volunteers for different roles over the next year and welcome and appreciate any of you who can help out. Steve Redding is our chair for the meeting. Please be on the lookout for volunteer opportunities and get involved if you can.

Enjoy your summer and we will see you at the August meeting.

All The Best,

Kimberly Thompson, P.E.
2016-2017 ASHRAE Houston President


ASHRAE
REGION VIII
GOLDEN GAVEL

ASHRAE Houston Chapter

A Special Thank You to our 2016-17 Annual Sponsors

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  - Rice & Gardner — Consultants Incorporated
  - McMillan James — Equipment Company Houston

Many Thanks To Our Dinner Sponsors For Past Presidents Night January 18th 2017



Board of Governors Meeting

Date: Wednesday, May 17, 2017

Place: HESS – Houston, TX

Time: 10:00 AM – 11:00 AM

Attendees:

Kimberly Thompson
Bill Chalmers
Kenneth Shifflett
Kurt McCulloch
Greg Tinkler
Bruce Flaniken
Michael Langton
Terry Connor
Bruce Flaniken
Chase Bielamowicz
Lauren Ramos
Rachel Haines
Mike Donavan
Richard Burr
Hugh McMillan
Joanna Tsenn, Ph.D.

BOG Meeting – May 17, 2017

Start Time: 10:09 am

I. Open Meeting/Introductions

II. Business

A. Pres. – Kimberly Thompson Present
   1. MBO's
      i. Chapter goal – increase meeting attendance by 20% and increase membership by 10%
      ii. Thanks everyone for such an awesome year.
   2. Discuss agenda for lunch meeting – any new business or announcements?
B. Pres. Elect/Programs- Bill Chalmers Present
   1. Speaker
   2. New business? Last meeting
C. Vice President/RP – Kenneth Shifflett Present

ASHRAE Houston Chapter

Board of Governors Meeting

1. Motion for checks to be sent to ASHRAE – how much and where to be allocated? Further discussion. TBD BOG to discuss spreadsheet
2. Do you have all the info needed for recognizing each company that contributed? Yes, hand out certificates of appreciation
3. Excellent job

D. Treasurer – Kevin Gardner Absent - Money/Budget/account balance
1. Schedule transition meeting with Greg Tinkler Present
2. Any wrap up that needs to be done with respect to taxes or any other open items?

E. Secretary – Kurt McCulloch Present – Meeting notes

G. Membership –Jeff Hunter Absent
1. Let's select the renewal and announce in the June newsletter.
2. Scheduled to attend MP training? This is the plan

H. Student Activities- Open/Terry Conner Present
1. Any news/updates?
2. Is John Gross scheduled to attend SA training in Long Beach? This is the plan

I. Historian- Victoria Herman Absent/ Bruce Flaniken Present
1. Planned articles

J. YEA – Rachel Haines Absent/Chase Bielamowicz Present
1. How was the year in general? Very good
2. What's next? Planning summer events

K. Women in ASHRAE – Lauren Ramos Present/ Rachel Haines Present
1. Wine event in May The Last event went very well and a large turnout. Looking for a sponsor next year.

K. R In Refrigeration- ??
1. Need to find another volunteer for next year

L. Sustainability-
1. Start thinking about who can help Bill with this for next year. Have a couple of names

M. Webmaster - John Walik Present - Open discussion.
1. Do you want help for next year? I have someone in mind.

N. Newsletter Editor- John Walik Present - Open discussion.
1. New business? Turn in articles and looking to update the website

O. Honors and Awards – Alan Neely Absent
1. status? Looking to train a new person

P. Product Directory – Erin will start on the new one in the fall. Kimberly is going to work with Erin over the summer

Board of Governors Meeting

Q. Pledge and Prayer – YEA

1. Who? Neal Dominick

S. Energy Modeling – Kapil Upadhyaya Absent

1. Continuing Energy corner in HAR

T. Grass Roots Government Advocacy – Michael Langton

1. Interface with COH Need to check with COH

U. Social Media – Mitchell Campbell Absent/Lauren Ramos Present

1. Facebook page – updated regularly
2. Twitter account – I have added the twitter feed to our home page and the twitter link. Everything is good

Joanna Tsenn here to discuss Capstone projects for TAMU Senior design Present

Reviewed potential Capstone Sponsorship for design projects. Mentorship of students. Project leadership experience, and improved design curriculum. Ideal project is a company problem to work on and for this, it requires a financial support of $12,000. Each project spans 2-semesters and the company sponsor is invited to the showcase to see the students final project presentation.

Hugh McMillan to discuss request for volunteers for 2018 Annual Meeting Present

Richard W. Burr attended the meeting and made a pledge of $30,000 for an Endowment Scholarship in his name. Details to follow.

Adjourn: 11:05 am

The 2017-2018 ASHRAE Houston Officers



Bill Chalmers / President
Kurt McCulloch / Vice President
Kimberly Thompson / Past President
Ken Shifflett / President-Elect
Greg Tinkler / Treasurer
Josh Vanlandingham / Secretary (not pictured)

Last Month's Meeting



Special Thanks to our ASHRAE Houston May 2017 Speaker, Dan In-Hout / Krueger.

Energy Code Corner

90.1 COMMISSIONING

The key to successfully commissioning a building is to ensure that the Commissioning Agent *is a third-party* and not involved in design or construction of the project – this is a *mandatory* requirement in 90.1-2013. Commissioning in 90.1-2013 is specific to Functional Testing of Lighting Controls and *excludes* specific scope of work for HVAC Systems. This is possibly because HVAC testing requirements would differ from system-to-system and would be too exhaustive to include in 90.1.

Here is a quick summary of the Commissioning Scope of Work:

A. Lighting Controls

1. Occupancy Sensors

- Test all up to 7 sensors;
- For more than 7 sensors, test unique combination of sensor type & space geometry.

Testing must verify status indicator, manual & auto control, and that lights turn off or dim within required time. It must also ensure that control is not triggered by movement in nearby areas or by HVAC operation.

2. Automatic Time Switches

Testing must confirm appropriate weekday/weekend/holiday schedule, date/time settings, override time limit < 2 hours, that manual override works and that battery backup (as applicable) is installed & energized.

3. Daylight Controls

Verify field-calibration, setpoints, light threshold levels, and accessibility to authorized building personnel. Also ensure that appropriate lighting loads are controlled within daylighting zones.

B. HVAC System & Controls

For projects *over 50,000 sf conditioned area,* Commissioning Specifications must be provided by HVAC designer. For all other projects, HVAC controls must be tested but 90.1-2013 does not outline specific scope of work; it refers to *ASHRAE Guideline 1.1* instead, which in turn refers to *ASHRAE Guideline 0* for commissioning scope of work:

1. **Design Phase**

    a. Commissioning Plan and schedule of commissioning activities
    b. Basis of Design
    c. Owner's Project Requirements
    d. Construction Specifications for Commissioning
    e. Construction Checklist
    f. List of items required for acceptance of Design-phase commissioning.

2. **Construction Phase**

    a. Submittal Review
    b. Tests and Schedule of testing
    c. Sample of Test Procedures
    d. Inspections Checklists & Reports
    e. Issues & Resolution Logs
    f. Systems Manual
    g. List of items required for acceptance of Construction-phase commissioning.

3. **Occupancy Phase**

    a. List of Training Items
    b. List of Warranty Items
    c. List of Tests during Occupancy
    d. Lessons learned workshop
    e. List of items required for acceptance of Occupancy-phase commissioning.

Have a high energy month!

Kapil Upadhyaya, BEMP, LEED AP BD&C, Fitwel Ambassador
Senior Associate, Kirksey Architecture

Feel free to share your thoughts & comments about Energy Code Corner at (kapilu@kirksey.com

State Energy Conservation Office

Announcement for ASHRAE Training Workshops

Complying with ASHRAE Standard 90.1-2013 Energy Standard for Buildings

The Comptroller's State Energy Conservation Office is offering a one-day training workshops to support compliance with the *ASHRAE Standard 90.1-2013* Energy Standard for Buildings. The workshops have been specially tailored for design professionals, facility managers, building code officials, and project managers.

The ASHRAE training workshops will take place in four Texas cities.

Workshop Dates

- April 4, 2017 at State Capitol Complex – Travis Building, Austin, Texas
- May 15, 2017 at UT-MD Anderson, Houston, Texas
- June 8, 2017 at UT-San Antonio, in San Antonio, Texas
- July 28, 2017 at UT-Arlington, in Arlington, Texas

Online Registration: http://www.seco.cpa.state.tx.us/tbec/edutrain.php

Background

New building energy performance standards went into effect in 2016 for state funded agencies and universities. These new rules (Texas Administrative Code 34 §19.32) mandate that state-funded buildings comply with the *ASHRAE 90.1-2013 Energy Standard for Buildings* or the *2015 International Energy Conservation Code (IECC)*. The updated version of the standard is projected to achieve 8.5 percent in additional energy savings as compared to the 2010 standard.

For More Information

To learn more about the training workshops or about the updated state building energy performance standards, contact Fred Yebra (512-475-0753).

FOR IMMEDIATE RELEASE

Press Release

DELTA T EQUIPMENT BOLSTERS SALES FORCE AND EXPANDS PRODUCT LINES WITH RECENT ADDITION OF BOB MORALES OF MORALES & ASSOCIATES.

Houston, TX, June 1, 2017– Paul McCarver, President of Delta T Equipment, is pleased to announce the recent addition of Bob Morales of Morales & Associates to Delta T Equipment's growing sales team.

Bob Morales brings over 45 years of experience in Houston's Plumbing/HVAC market and adds **Weil Pump Company, AAF Dust Collectors and Industrial Acoustics Company** to Delta T Equipment's comprehensive product line-up. Having worked as friendly competitors in the Houston market, Paul and Bob have a long-standing relationship and excellent synergy.



"Bob brings a lifetime of relationships and expertise in the Plumbing/HVAC industry and will be a key component of Delta T's continued growth in the Southeast Texas market. We are excited to have him on our team."

-- Paul McCarver, President Delta T Equipment

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About Delta T Equipment

Delta T Equipment, a customer focused HVAC/Plumbing Manufacturer's Representative firm offering an excellent suite of products to the HVAC/Plumbing industry, has proudly served the Southeast Texas market for over 12 years. Delta T's robust sales team features industry experts who strive to bring innovative ideas and quality solutions to the Consulting Engineer, Contractor and End User.

Delta T Equipment
10757 Cutten Road, Building 3
Houston, Texas 77066
281-745-9060
www.deltatequipment.com

Women In ASHRAE

Thank you Women in ASHRAE and those who supported us for a memorable and successful first year!
We will be taking the summer off and begin the 2017-2018 WiA Event season in September, 2017.
If you or your company is intersted in sponsoring one of the WiA events
or has an idea for a future event, please reach out to Lauren or Rachel.



(WiA Members/Supporters at our end of the year Wine Social at Solaro Urban Winery.
Left to Right: Nolan Rendon, Angela Sherman, Stefi O'Neil, Erin Picton, Linsey Reed,
Julie Thomet, Lauren Ramos, & Penny Middelraad.)

Mission Statement: *The focus of the Women in Engineering group within ASHRAE is to facilitate the retention of women working in the built environment by encouraging opportunities for professional development, expanding leadership skills, and creating a network of women supporting women. We strive to unite women from various occupations including engineering, construction, project management, property development & ownership, equipment sales & manufacturing, architecture and more. We hope to foster mentoring relationships among these professionals to create a network of women supporting women in the Greater Houston area.*

Best Regards,

Lauren Ramos
lauren.ramos@hei-eng.com

Rachel Downey Haines
rachel.haines@dxseng.com

Young Engineers in ASHRAE upcoming events…

Thanks to all those that came out to Dan Electro's Guitar Bar this month for our Networking Social.
Please join us in June for a joint networking social of Houston Young Design Professionals. Event is hosted by the AIA Young Architects Forum, AGC Construction Leadership Council, American Society of Landscape Architects, American Planning Association, Young Engineers in ASHRAE, and rdAGENTS. Registration is available at AIAhouston.org



Our July YEA event will be a tour of the newly opened Daikin Texas Technology Park.
This state of the art LEED Gold manufacturing facility boasts over 4 million square feet under one roof and serves as the North American Headquarters for Daikin AC. The YEA Group plans to meet at Karbach Brewery, take a chartered bus out to the plant in Waller, and return back to Karbach for a networking social.
Date, time, and details coming soon!



As always, feel free to reach out to us at yea@ashraehouston.org if you have any ideas or would like to become more involved in the local chapter!

-Rachel Haines & Chase Bielamowicz
YEA Chairs



Click On The Green Button For All Pictures



Just like Trey Green and the Roessler Equipment / ABB Group has.

In Memoriam



Andrew Holdaway
April 21st, 1961 – May 25th, 2017

Andrew Jefferson Holdaway passed away on Thursday, May 25, 2017, at the age of 56 years. He was born on April 21, 1961, in Richmond, Virginia, to James Lee Holdaway and Janice Coffey Holdaway. On October 29, 2010, he married Marcia Nogueira in Houston, Texas. Andrew was a published writer, flutist, and earned 3 Black Belts in Martial Arts. He also enjoyed scuba diving and downhill skiing.

He is survived by his loving wife, Marcia Nogueira of Houston; sons, Jacob Holdaway and Andrew Holdaway, both of Houston; father, James Lee Holdaway of Atlanta, Georgia; sister, Robin Levenstein and her husband David of Woodbine, Maryland; brothers, Kevin Holdaway and his wife Josie of Lawrenceville, Georgia, and Jonathan Holdaway and his wife Sharyn of Tucker, Georgia; as well as numerous other loving family members and friends.



Ron Bukowski
November 13, 1961 – June 22, 2017

Thursday, June 22, 2017, around dusk, this world lost the most passionate man, with the strongest legs, who gave absolutely all of himself to his family and his occupation. Ronald Ray Bukowski - born November 13, 1961.

He lived his life on his own terms which were crystal clear to the people he interacted with on a daily basis and even those he met for the first time. Instantly it would be apparent that he was sincere and brutally honest with a splash of sarcasm and he had an uncanny wit that drew each and every person into his enchanting blue eyes, huge dimpled smile, and exuberant embrace.

Ronnie loved sports and could recount every baseball game he ever played in, every game he ever coached and every one of his son's baseball games. He was a true Houston Astros fan even when others would have thrown in the towel. He could describe every golf shot he hit on every course he visited. He also loved football and passionately threw himself into fan mode making all his favorite teams, the MacArthur Generals, the Houston Oilers, the Spring Lions and the Houston Texans proud.

He leaves behind so many who will miss him greatly. He was very fortunate to have two families, one exceptional and one professional. His "lovely bride" Katherine Marie, son Aaron Zachary, and daughter Julia Marie will forever be grateful and thankful for his pure unadulterated love. His mother and father, Margaret Ann (Kopczynski) and Charles Thomas Bukowski along with his brothers Kenny and Charlie, sisters Donna and Mary, will remember and carry him forever in their hearts. His sister-in-laws Renee and Yvonne will remember every goofy dance and every annoying song. His brothers-in-laws Dennis and Mark will remember his uncanny ability to always be "right". His nieces and nephews, Jessica, Ken Jr., Jenny, Eric, Brandon, Ryan, Tyler, Carter, Amanda, and Justin, will miss his childish and playful nature. His great nieces and nephews, Ava, Joshua, Olivia, Collier, Caleb and Baby "B" will miss his talent to always make them laugh. His future son in law Brandon Joseph Fusco will miss his guidance and never ending advice and his young and caring new friend Candice Brooke Randall will miss his warm embrace.
Ron's professional family Chuck and Lynn Fell, Roy and Jennifer, Willie, Carlos, Dennis, Darrell, Gail, Trinidad, Laura, Ron D., Landrum, AJ, Tom, Charlie, Jimmy, David, along with numerous others will forever feel his presence through the hallways he helped to build and develop over the past twenty years at CFI Mechanical. Ron proudly held the title of Vice President. The plumbing industry and Plumbers Local 68 where Ron gave thirty plus years of service will miss the most dedicated and creative Master Plumber to have ever joined the brotherhood.

Ronnie leaves behind so many wonderful friends whom he loved and respected as well. Zach, Julia, and Katherine can see, feel, and above all, appreciate everyone's heartfelt support. There are so many Ron would want to personally thank and kiss one more time. Everyone cannot possibly be mentioned because the list would never end. You know who you are. Please keep his family in your thoughts and prayers and never hesitate to reach out with a story about our beloved Ronnie, he was the greatest.

A Prayer And A Pledge

At the beginning of each meeting we have a Prayer and then the Pledge Of Allegiance with a Guest Speaker





Neal Dominck



Student Activities

On Tuesday, May 30th, the ASHRAE Houston Chapter and HTS participated in a Conroe ISD 'Career Day' event at Sally K. Ride Elementary School to promote career opportunities in the field of Engineering. The students took part in a Q & A session where they shared their knowledge about what it takes to pursue a career in Engineering, and then they broke up into groups and performed an experiment with several long straws taped together to simulate pressure losses in duct/piping systems.

The Conroe ISD students showed great creativity with the duct/piping systems they put together. And they learned quite a bit about how twists and turns in a duct/pipe affects the amount of power required to move fluid through the system. It was a real pleasure to have the opportunity to speak to so many bright young children – and to promote careers in Engineering. This next generation of Engineers is off to a great start!





Terry Connor
Student Activities

Membership

The Membership Committee is please to announce our Spring 2017 Winner of a Free ASHRAE Membership for a Year.

Please congratulate **Alex Roessler** who joined in February.

Which ASHRAE Membership grade is right for you? If you are interested in upgrading your membership or becoming a new member, please reach out to info@ashraehouston.org for assistance.

Member Grade is open to anyone who has a combination of education, professional licensure and work experience equivalent to twelve years in the HVAC&R industry. You will be asked to provide information regarding your education, work, and professional licensure when applying for Member Grade.
Dues: Society dues for Member Grade are $204 annually.
Qualifications:
The equivalent of 12 Society-approved years of experience composed of an approved combination of:

- Completed education beyond high school;
- Work experience (including research, teaching, design, contracting, engineering sales, or engineering management); and
- Professional engineering or related registration or license issued by a legally authorized body.

Associate Grade membership is for those who have been in the industry for a few years and are focused on developing skills, and growing their network. Associate grade membership is open to anyone who has an interest in matters of design, operation, or maintenance in HVAC&R-related fields.
Dues: Society dues for Associate Grade are $202 annually.
Qualifications:

- Experience in technical matters or in design, operation, or maintenance in HVAC&R fields
- Interest in the advancement of the Society's aims, and sufficient qualifications to cooperate with HVAC&R engineers in the advancement of the knowledge relating to HVAC&R engineering and its application.

Affiliate grade is a low cost, introductory membership for those who are either: (1) under 30 years of age OR (2) who have been honorably discharged from the Military within the past 5 years.
Dues: Society dues for this 3 year program are:

- $51 (1st Year)
- $77 (2nd Year)
- $102 (3rd Year)

Qualifications:

- Interest in the advancement of the Society's aims, and sufficient qualifications to cooperate with HVAC&R engineers in the advancement of the knowledge relating to HVAC&R engineering and its application.
- For new members only.
- Must be either: (1) under 30 years of age OR (2) honorably discharged from the Military within the past 5 years
- Can only hold this grade for up to 3 cumulative years.

Note: Affiliate Members do not receive a free annual edition of the ASHRAE Handbook

Poker Night Wrap-Up

Thank you, thank you, thank you! We had another fantastic year of RP and have raised over $100,000 again this year. As a recap we attended an Astros game; hosted Sporting Clays, Top Golf, Golf, and 2 Texas Hold 'Em tournaments. Thank you to everyone that sponsored and/or participated in the events.
Also thank you to all our annual sponsors: Lashley, Straus Systems, McMillian James Equipment Company, I A Naman + Associates, Hunton Trane, Roessler Equipment Company, HTS, Texas Air Systems, Vicon, Nailor, Cougar Sales, Tower Tech, DistribAire, Titus, Mitsubishi, Carrier, Rice & Gardner, HD Grant Company, and our Platinum Partner sponsor – Johnson Controls Inc. We could not have done this without all our sponsors!

If you have not made a personal donation to ASHRAE this year, please consider doing so. Here is the link to donate online:
www.ashrae.org/contribute

As for the most recent poker tournament, thank you to all the participants, sponsors, and volunteers that made our 2nd ASHRAE Houston Chapter Texas Hold'em Tournament on May 11th a huge success! iHostPoker again did a fantastic job providing tables, dealers, and promoting the fundraising aspect of the event. A special thanks to HTS for providing the event venue.
After a couple hours of fun, and rebuys, the final table was set and eventually saw Andrew Head finish 3rd, Parker Pustejovsky 2nd, and Steve Bulman as the winner. Thank you again to all the players, especially those that purchased rebuys and add-ons.
Lastly, I want to make sure we thank YEA for providing volunteers throughout the year and especially Rachel Haines.

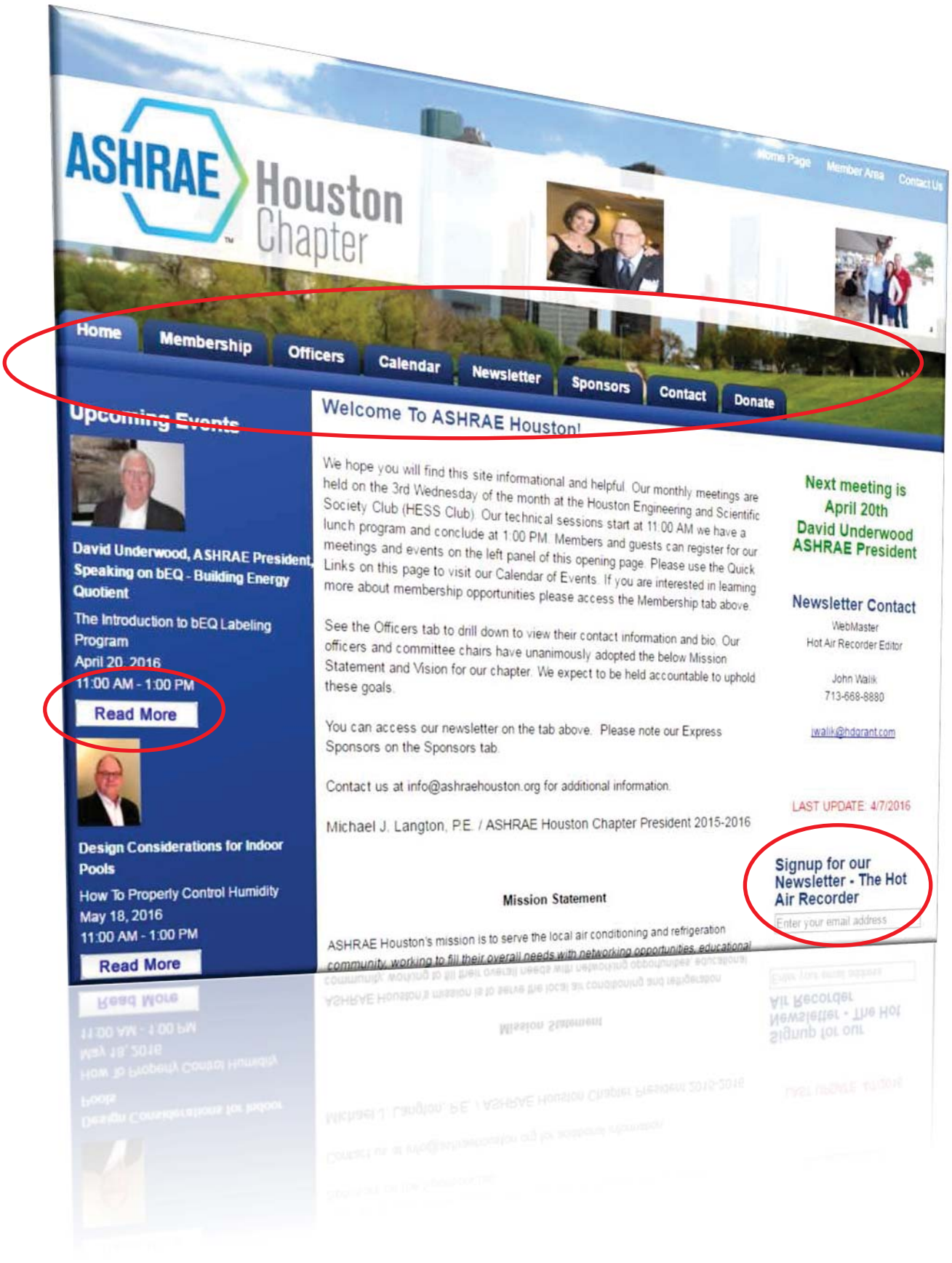
Regards,

Ken Shifflett
ASHRAE Houston Chapter Vice President and Resource Promotion Chair



ASHRAE HOUSTON JUNE 2017 POKER NIGHT AT HTS HOUSTON

Visit Our Website



TableTop Sponsor

The ASHRAE Houston Chapter gratefully acknowledges our May 2017 Table Top Sponsor.



Special thanks To

Big A** Fans

Erin Hall

and

H.D. Grant Company, Inc.

Chad Wiginton

TableTop Sponsors 2016

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December	**January**
Mistletoe	**Past Presidents Night**
February	**March**
BARTOS	**Student Night**
April	**May**
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ASHRAE Houston Chapter Roster

Position	Name	TelePhone
President	Kimberly Thompson	(832) 328-1010
President Elect	Bill Chalmers	(713) 580-8817
Vice President	Kenneth Shifflett	(713) 266-1761
Treasurer	Kevin Gardner	(713) 482-2300
Secretary	Kurt McCulloch	(713) 266-3900
Past President 2015-2016	Michael Langton	(713) 462-8888
Academic Excellence	Jeff Bolander	(713) 780-7563
Attendance & Reception	Adam Castillo	(713) 266-3900
Attendance & Reception	Trey Green	(713) 782-2701
Board of Governors	Bruce Flaniken	(713) 441-9624
Board of Governors	Alan Neely	(281) 432-9864
Board of Governors	Michael Langton	(713) 462-8888
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 Alternate	Bill Chalmers	(713) 924-2417
C.R.C. Delegate	Kenneth Shifflett	(713) 266-1761
Chaplain Emeritus	Hank Fry	(713) 774-4922
Energy Code	Kapil Upadhyaya	(713) 426-7508
Finance	Kenneth Shifflett	(713) 266-1761
Finance	Kevin Gardner	(713) 482-2300
Grass Roots Advocacy	Michael Langton	(713) 462-8888
Green Initiative	Marina Badoian-Kriticos	(832) 393-0969
Green Initiative	Steve Stelzer	(832) 394-9050
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

ASHRAE Houston Chapter Roster

Position	Name	TelePhone
Honors & Awards	Bryan Bagley	(713) 548-8900
Membership Promotion	Jeffrey Hunter	(832) 418-3833
Membership Promotion	June Johnston	(832) 444-7258
PAOE Administrator	David Schurk	(832) 328-1010
Photographer	Skip Williams	(713) 782-2701
Photographer	Valerie Roberts	(281) 500-8136
Pledge and Prayer	Jordan Farrar	(713) 784-8211
Professional Certifications	Alex Roessler	(713) 782-2701
Programs	Bill Chalmers	(713) 580-8817
Refrigeration	Tony Summers	(713) 939-6095
Resource Promotion	Kenneth Shifflett	(713) 266-1761
Roster & Product Directory	Adam Smith	(281) 620-1893
Roster & Product Directory	Brandon Williams	(281) 606-2532
Social Media	Mitchell Campbell	(713) 782-2701
Social Media	Lauren Ramos	(713) 783-7707
STEM Champion	Terry Conner	(832) 328-1010
Student Activities	Stefi O'Neil	(713) 783-2787
Sustainability	Ryan Dupnick	(281) 606-2510
Technology Transfer	Bill Chalmers	(713) 580-8817
Women in ASHRAE	Rachel Haines	(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 HainesDowney	(832) 328-1010
Editor, Hot Air Recorder	John Walik	(713) 830-4523
Webmaster	John Walik	(713) 830-4523