



AUSTIN, TEXAS
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September 2015

ASHRAE - American Society of Heating, Refrigerating and Air Conditioning Engineers

FROM THE PRESIDENT'S DESK

Welcome to the 2015-2016 ASHRAE Austin Chapter year! I hope everyone has had a productive and relaxing summer. I'm enthusiastic about having a great year for our chapter and planning events that our members will be excited about. I am extremely honored to be named the President of the ASHRAE Austin Chapter for the 2015-2016 year.

Every year, the Chapter President assigns committees and sets the focus and intention for the term. This year I am determined to do BETTER. Better programs, better events, better attendance, better content, BETTER ASHRAE.



DAVID BACORN

2015-2016 CHAPTER PRESIDENT

I have challenged all of my committee volunteers to do BETTER than what we have done in prior years, to carry our successes higher, to build upon our failures, and to set our goals higher than ever. We want engineers at our meetings and we will be offering extreme discounts via our new express-pay option. Our committee volunteers will also be reaching out to all of the consulting engineering firms in town with personal invites to our events this year. We want to transform the ASHRAE Austin Chapter from vendor-centric to engineer-centric.

Driving up our attendance starts with BETTER programs. Our first meeting was kicked off at Matt's El Rancho with a Panel Discussion on DDC Controls Design and Construction. Our Panel Discussion last year on Chiller Plant Design was the highest attended meeting of the year with just over 80 members and guests in attendance and in August 2015, we surpassed that with close to 100 members and guests.

This month, we are sticking with a lunch meeting but moving over to the County Line on the Hill for BBQ. Mike Johnson with Trane will be discussing "*Energy Recovery Ventilation Strategies.*" We are hoping to repeat this success again, so please help spread the word.

If you are interested in getting involved in ASHRAE Austin Chapter for the 2015-2016 year, please contact me or any of the committee chairs listed on the back page of our ASHRAE Austin Chapter newsletter.

David Bacorn can be reached at 512.744.4412 or davidbacorn@eeace.com

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UPCOMING EVENTS

September 17
AUSTIN ASHRAE
LUNCH MEETING, 11:30 AM
The County Line on the Hill
6500 Bee Caves Rd.
Austin, TX 78746

September 29
Energy Modeling Conf. Course

September 30 - October 2
Energy Modeling Conference

October 5-7
HVAC Design Training - Atlanta

JOIN US SEPTEMBER 17 AT LUNCH WITH MIKE JOHNSON

Mike grew up in St Louis Missouri and graduated with a BSME degree from University of Missouri Rolla (Missouri Institute of Science and Technology) in 1981. After graduation he was hired by Trane and attended Trane's 6-month HVAC training program in LaCrosse Wisc. Upon completion of the program Mike was assigned to the San Antonio sales office, and was transferred to Austin in 1986 when Trane opened an Austin office. Mike is currently in his 35th year with Trane supporting engineers, contractors, and owners in the Austin area. Mike is married and has 2 children, 2 stepchildren, and a weenie dog named Spencer. All four children graduated from the University of Texas with degrees in electrical engineering, biomedical engineering, mechanical engineering, and film (and liberalism).

His presentation for the September meeting will be on Energy Recovery. Topics covered will include the review and comparison of commonly used energy recovery devices. Psychometrics of energy recovery. Typical energy recovery configuration options. Cost and ROI. IECC 2012 Energy Recovery requirements.





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2015 - 2016 AUSTIN ASHRAE MEETING CALENDAR



STEVE HANSEN

2015-2016 VP - PROGRAMS

Steve Hansen can be reached
at 512.834.9848 or
steven.hansen@henselphelps.com

Date	Time	Location	Topic	Speaker	Sponsor
9/17/15	Lunch	County Line on the Hill	Energy Recovery Ventilators	Mike Johnson	Trane
10/15/15	Dinner	TBD	Brewery Tour	N/A	N/A
11/19/15	Lunch	Matt's El Rancho	Refrigerant SME	Brian Smith	Johnson Controls
12/17/15	Lunch	Matt's El Rancho	2015 Legislative Update	Ben Wescott	Andrews Myers
1/21/16	Dinner	County Line on the Hill	Ethics	TBPE	N/A
2/18/16	Lunch	Matt's El Rancho	TBD	TBD	TBD
3/17/16	Dinner	County Line on the Hill	TBD	TBD	TBD
4/21/16	Lunch	Matt's El Rancho	TBD	David Underwood - ASHRAE President	ASHRAE
5/19/16	Dinner	County Line on the Hill	Natatoriums	Ralph Kittler (ASHRAE DL)	Seresco

GRASSROOTS GOVERNMENT ACTIVITIES REPORT

Austin ASHRAE members, I am excited to be the Grassroots Government Advocacy chair for the chapter this year. I would like everyone to be aware that the national chapter website has a page devoted to Government Affairs,
<https://www.ashrae.org/government-affairs/grassroots-government-advocacy>

Here you will find Action Alerts, Presentations, Policy Resource and Policy Issue Briefs and other interesting information dealing with governmental issues, such as this example of a legislative update:

Talks Continue in Ramp-Up for Energy Legislation

Energy legislation will likely be considered later this month by the House Energy & Commerce Committee, and could be passed by the end of the year in both Chambers, paving the way for legislation to be enacted into law in early 2016. As such, Members of Congress and their staff are going through the various bills and amendments that have been or may be introduced in preparation for expected votes. Look for a packed fall, with the possibility that smaller bills may quickly be considered if the larger packages fail. Here's what's likely on the agenda in the coming months:

- * September: Funding bills (likely result is a short-term continuing resolution) and the Iran deal.
- * October: Debt ceiling (could instead occur in November) and the federal highway trust fund.
- * November: Debt ceiling? Toxic Substances Control Act may considered. Energy legislation may also be considered.
- * December: Continuing resolution and possibly energy legislation.

At some point this year legislation on the Clean Power Plan may also be considered, and no doubt other issues will come up that demand congressional attention. Look for changes in the schedule in future editions of the Government Affairs Update. So check out the website-and if you are interested in local/state/national government issues and want to help please contact me.



JON-ERIK JOHNSON
2015-2016 GRASSROOTS
GOVERNMENT ACTIVITIES

Jon-Erik Johnson can be reached
at 512.271.3017 or
jon-erik.johnson@texasairsystems.com



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VANESSA MARYOTT

2015-2016 TREASURER

Vanessa Maryott can be reached at 512.461.0404 or vanessa.maryott@siemens.com

TREASURER'S REPORT

Account Balances - As of 7/31/2015

(Includes unrealized gains)

As of 7/31/2015

Account	7/31/2015 Balance
Bank Accounts	
ASHRAE CHECKING	2,927.13
Savings	1,023.57
TOTAL Bank Accounts	3,950.70
Investment Accounts	
2013 Austin CRC Fund	0.00
TOTAL Investment Accounts	0.00
OVERALL TOTAL	3,950.70

Treasurer's Report (Fiscal Year Ending 6/30/2016) - 2016

7/1/2015 through 6/30/2016

Payee	7/1/2015- 7/31/2015	8/1/2015- 8/31/2015	9/1/2015- 9/30/2015	10/1/2015- 10/31/2015	11/1/2015- 11/30/2015	12/1/2015- 12/31/2015
EXPENSES						
CTC*CONSTANTCONTACT	55.00	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENSES	55.00	0.00	0.00	0.00	0.00	0.00
OVERALL TOTAL	-55.00	0.00	0.00	0.00	0.00	0.00



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CARRIE ANNE CRAWFORD

2015-2016 SECRETARY

Carrie Anne Crawford can be reached at 512.744.4433 or carriecrawford@eeace.com

BOG MEETING MINUTES - AUGUST 2015

Austin ASHRAE – BOG Meeting Agenda

August 20, 2015

11am

Matt's El Rancho

Attendees:

1. **David Bacorn, President**
 - a. Has everyone's Goals/MBOs been posted to dropbox?
 - b. Has this month's PAOE Points been entered online? Any issues?
 - c. Communication with RVC this month?
 1. Planning sessions with RVC by Oct 1.
 - d. Has everyone's "How To" word docs been posted to dropbox.
 - e. Creation of Past President's Committee.
 - f. ASHRAE University update.
2. **David Driggers, President Elect / Newsletter Editor -**
 - a. August newsletter was not issued. What are the issues here? Re-formatting.
 1. Everyone have updates to Driggers by Sept 3rd.
 2. Everyone send professional looking pictures for Newsletter
 3. Have Newsletter out by Spet. 7th
 - b. Need to send out calendar invite reminders for content.
 - c. Has region/society judging committee been added to our mailing list?
3. **Steve Hansen, Vice President / Programs**
 - a. Update on meetings & locations booked so far.
 1. Refrigeration tour in November
 2. David Underwood (Society President) will be here for the April Meeting
 - b. What slots are left to fill? Are we on track to meet the Oct 1 deadline?
 - c. Express Pay updates.
4. **Vanessa , Treasurer**
 - a. Discuss assigned budget with BOG. Does any committee need more funds?
 - b. Revised budget by Sept. 3rd.
5. **Carrie Anne Crawford, Secretary**
 - a. Updates?
6. **Derrick Van West, BOG 1 Research Promotion**
 - a. Special Events schedule update.
 - b. RP companies list update. We need to get the companies list (vendors, consultants, owners, contractors) to MP to help fill in members at these companies. – by Sept. 3rd.
 - c. Full Circle – By Oct 31
 1. Derrick sent email.
 2. Pay ASAP
 3. Derrick will check who hasn't paid and send reminders.
 - d. RP Goal. – need to set (offline)
 - e. Set up express pay for RP events
 1. If you pay for Skeet Shooting, Bowling, and Golf Tournaments all at once – you get 1 free seat at the poker tournament.
 2. Bowling Tournament – usually \$200/team – change to \$250/team and get more lanes.
 3. Express pay to include Top Golf?
 4. Poker Tournament –

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



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CARRIE ANNE CRAWFORD

2015-2016 SECRETARY

Carrie Anne Crawford can be reached at 512.744.4433 or carriecrawford@eeace.com

YEA UPDATES

Young Engineers of ASHRAE (YEA):

1. Upcoming events:

- a. September: Technical Tour - UT Liberal Arts Building (CLA)- A LEED Gold Building with Chilled Beams and Underfloor Air Distribution
- b. October: Brewery Tour
- c. November: Technical Tour - Austin-Bergstrom International Airport Expansion
- d. Pro-Football Pick 'ems: Sign up now!
<http://football.fantasysports.yahoo.com/pickem>
Group ID: 23480
Password: **ashrae2015**

2. PE Study Group

- a. If you would like to participate, please contact: drew.higgins@hts.com

3. Mentorship Program

- a. This is beneficial if you want guidance on your career, how to get more involved in ASHRAE, improve networking skills, or would like to offer your own guidance.
- b. We need:
 - i. ASHRAE Members to mentor YEA members
 - ii. YEA members to mentor Student members
- c. If you are interested in participating in this program please contact carriecrawford@eeace.com

4. We send the invite to all ASHRAE members, not just YEA, in the hopes that everyone forwards them to the Young Engineers in their offices! Please help us spread the word!

5. Thank you to all event attendees for a great time with good company.

This is all made possible through the support of the YEA planning committee, so an extra special thank you to:

Carrie Anne Crawford (EEA), Will Clinton (EEA), Drew Higgins (HTS), Phillip Wood (TRANE)

6. Like YEA on Facebook

<https://www.facebook.com/pages/YEA-Austin/135455226563139>



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STUDENT ACTIVITIES UPDATES

Austin ASHRAE Student Chapter Update - 9/7/2015

General News

Another year has started for the Austin Chapter! This is my first year as Student Activities Chair and I look forward to serving the Chapter. Joining me on the Student Activities Committee are Jeff Miller (Co-Chair, jmiller@txap.com), and Alicia Reich (K-12/STEM Champion, Alicia.Reich@schneider-electric.com). There's plenty of room on the Committee. If you'd like to get involved please contact one of us.

As in previous years, our ongoing efforts will be to grow student interest in ASHRAE within the local colleges, increase chapter participation in K-12 activities, and involvement in Engineers Week. Below is the Student Activities calendar for the 2015-2016 year. The calendar will be updated as volunteer opportunities are scheduled. If anyone has interest in involvement or an additional volunteer opportunity, please email me, Jeff, or Alicia.

FY 2015-2016 Student Activities Calendar

DATE	EVENT	VOLUNTEER/SPEAKER(S)
9/3/2015	UT-Austin Student Branch Mtg	David Bacorn, Randy Schrecengost, Jeff Miller, Carrie Ann Crawford, & Will Clinton
10/1/2015	UT-Austin Student Branch Mtg	Randy Schrecengost
11/5/2015	UT-Austin Student Branch Mtg	Gayle Davis
12/3/2015	UT-Austin Student Branch Mtg	Kevin Schaal
2/4/2016	UT-Austin Student Branch Mtg	Jeff Childs
2/17-20/2015	Austin Regional Science Fair	
2/27/2016	Introduce a Girl to Engineering Day	Alicia Reich, Gayle Davis
3/3/2016	UT-Austin Student Branch Mtg	
4/7/2016	UT-Austin Student Branch Mtg	
5/5/2016	UT-Austin Student Branch Mtg	

Collegiate News

Exciting news for student members this year!! The Chapter BOG voted, at the August meeting, to waive the \$10 chapter meeting fee!! Student members can now attend all regular Chapter meetings for free. In addition, the Chapter will sponsor the first 10 students to sign-up for Student Membership!

UT Student Branch held their first meeting on September 3rd. Special thanks to David Bacorn, Randy Schrecengost, Jeff Miller, Carrie Ann Crawford, & Will Clinton for speaking and sponsoring this meeting. These members presented on ASHRAE history, student membership benefits, SmartStart, & YEA. They had a strong attendance at 19 students attending.



GAYLE DAVIS

2015-2016 STUDENT ACTIVITIES

Gayle Davis can be reached at 512.427.3639 or davisgayle@stanleygrc.com



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MEMBERSHIP PROMOTION

As MP chair I am responsible for putting together a membership committee. We have Danny Richardson on board for this year as well as myself but are looking for a few more people (preferably engineers or contractors so it's a more even balance) to help us grow the chapter and focus on making the membership experience the best it can be for current members. Please shoot me an email if you are interested. There will be a minimal time commitment and it helps tremendously with networking.



SPENCER ROTHERY

2015-2016

MEMBERSHIP PROMOTION

Spencer Rothery can be reached at 512.416.8822 or spencer.rothery@trane.com

HISTORY, HONORS & AWARDS

**BOG #3 Report
September 2015**

Honors and Awards

- **MBO #4** Complete paperwork for at least one Honor and Award
Status: **On-Going**
The points summary for all active Officers & Committee chairs has been updated as of September 7. If time is successfully served this year, Justin Johnson will qualify for a Chapter Service Award.

As always, this BOG member would **WELCOME ANYONE INTERESTED IN GETTING MORE INVOLVED** to assist in the above items.

**History Report
September 2015**

History

The following are the History goals for this Society year:

- **MBO #1** Meet or exceed PAR for History points (PAR 300, 100 minimum required)
Status: **On-Going**
Currently sit at 400 Points and have exceeded PAR. -
- **MBO #2** Complete a Chapter Year History Summary for previous Society Year
Status: **On-Going**
Currently working on Charles Whitten's Society Year of 2009-2010. -
- **MBO #3** Complete a History Power Point presentation for Spring CRC
Status: **On-Going**
Currently working on PPT slides for a Chapter meeting and approximately 75% complete
- **Goal #1** Form a Historical Committee of at least 3 members, but no less than 2.
Status: **Committee has 4 members as follows**
Randy Schrecengost – Chair
Jennifer Boulware (Carrier) – Vice Chair
Kyle Kramer – (HTS) Committee Member
David Payne – (Oslin Nation) Committee Member



RANDY SCHRECENGOST

2015-2016 HISTORIAN

Randy Schrecengost can be reached at 512.427.3623 or schrecengostrand@stanleygroup.com



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- **Goal #2** Communicate with Regional Historian (RH) monthly.
Status: **On-Going**
Sent email on August 9th with Goals and MBOs for year
Sent email on August 25th with update for August
- **Goal #3** Develop a succession plan to include "How To" word documents for future Chapter Historian for review and education for the role and including honors and awards.
Status: **On-Going**

As always, this author continues to look for Historical information and welcomes any/all input. Think HISTORY!

Respectfully Submitted,
Randy Schrecengost, P.E. – Historian



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JOB POSTING

Building Energy Engineer / Energy Modeler

About Bractlet

Bractlet was founded with a vision: buildings using only the resources they require. A rapidly growing company in Austin, Texas with both energy service companies and building owners/management customers around the country, Bractlet challenges the *status quo* with innovative, intuitive, and insightful building efficiency solutions.

Combining mesh-network equipment monitoring with physics-based building analytics, Bractlet has assembled a world-class development team with diverse skillsets in statistical algorithms, big data cloud-based architecture, hardware design, commercial building operation, and user design. We innovate at the cutting edge of metering/verification and energy analytics technology. Bractlet is a fast-growing goal-oriented company that strives to make energy waste a thing of the past.

About the job

Your knowledge of *energy-using systems* will be fully utilized to develop the most sophisticated energy modeling analytics in the world. Pushing boundaries and stretching your creativity, every day will bring challenging opportunities to do/build something never seen before. As a key player in energy-efficiency improvements, your contributions will have a lasting impact on our planet.

About you

- Proficiency in existing energy modeling applications—such as Energy Plus, eQuest, and DOE2.2
- You are an emerging expert and self-proclaimed energy geek
- Data-driven, you get excited by troves of building and equipment-level energy information
- You live for a challenge and believe that complacency is not an option
- Meaningful building control & HVAC systems knowledge with building architectural exposure
- You have demonstrated the ability to manage and exceed expectations
- General computer skills are excellent and you are comfortable learning/troubleshooting unfamiliar software packages
- You function well in a fast-paced, informal environment where change is the norm
- Bachelors degree (or higher) in mechanical, architectural, or energy engineering

Responsibilities

- Creating building energy models for existing Bractlet monitoring systems, built on measured equipment trend data and baselines
- Developing proprietary algorithms and analytics to automate the creation of sophisticated and accurate building energy models
- Identifying and analyzing energy conservation measures by utilizing Bractlet equipment monitoring data and historical utility/weather data
- Incorporating demand pricing, water consumption, and gas usage into our analytics engine

Compensation

You'll get in on the ground floor of a seed-funded startup with a compensation package inline with experience/expertise including medical, dental, and vision insurance. Bractlet is a dynamic, intellectually diverse, and fun-loving company that prides itself on honesty and excellence.

Interested? Contact Nick Cardwell (nick.cardwell@bractlet.com) with a resume and cover letter



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ASHRAE - Austin

Invites You to Join Us For Our

Annual Sporting Clay Event & Fund Raiser



Friday, October 30, 2015
At Capitol City Trap & Skeet

- Teams will consist of 4 shooters, Individual Shooters will be assigned to a team
- Each Team will shoot 100 Targets Per Person at 10 Stations
- Shooters must furnish their own ammunition
- Registration opens at 12 PM
- Shoot begins at 1:30 PM
- Dinner included, served at 5:00 PM
- Live Music, Games, Raffle

Entry Fees

\$600 Per Team (4 Shooters to a Team)

\$150.00 for Individual Shooters

Top Team Plaques

Top Individual Plaques

Shooter with the Most Potential

Trophies

Team Name: _____ Team Members 1) _____

2) _____
(Please Print)

3) _____

4) _____

Sponsor:
Company Name _____

Address _____

Contact Name _____

E-Mail _____

Telephone _____ Fax _____

ASHRAE and Industry History (Part 1)

Until about 1890, the science of heating and ventilation was not well understood. Most of the work was done by Contractors and very few of them were educated or had any formal training in engineering. Installations of heating and ventilating systems were based upon the ancient rule of thumb, and relied heavily on calculations related to data in fan manufacturers' catalogues.

The Master Steam and Hot Water Fitters Association was formed in 1889 to protect the interests of the contractors. About this time more sophisticated scientific approaches to heating and ventilation were being imported from Europe and particularly from England. Some members were interested in learning more about these scientific approaches and so a few technical papers were presented at the Association's meetings. However, since the majority of the associations members were business and sales men, they were not particularly interested in the arts and sciences of heating and ventilation and only primarily wanted to discuss business matters.



During the Association's 1894 National Convention, three technical papers were scheduled to be presented by David M. Nesbit, of London, England; Edward P. Bates, of Syracuse, New York; and Arthur Walworth, of Boston, Massachusetts. The attendance and discussion on these papers was considered disgusting. There was a resolution passed that, in the future, papers must only take ten minutes to read.

The fact was that the majority of American heating and ventilating engineers were not members of the Master Steam and Hot Water Fitters' Association, and the majority of the Association were really business men anxious about getting work and making money. The engineers were a decided minority and interested in the art of heating.

A Mr. Hugh J. Barron wrote an article about the situation and submitted it to a Mr. Louis H. Hart, who at the time was the business manager of Heating and Ventilation. During a meeting to discuss the article's publication a discussion occurred about forming a society to give consideration to engineering matters connected with heating and ventilation only. After many more discussions and getting positive feedback from fifty to seventy-five engineers known to be interested in this chosen line of work, it was determined that an organization should be formed.

As a result, 25 invitations were sent to engineers in New York City to attend a meeting at the offices of Heating and Ventilation on Thursday, August 2, 1894. Sixteen people attended and they became known as the Committee of Sixteen. This initial group formed a Committee on Organization who worked over several weeks and eventually sent out invitations, and circulars explaining the necessary qualifications, to 157 engineers to become a charter member of the new organization. A Mr. Fred P. Smith was elected temporary chairman to run the meeting, and Mr. Louis Hart was elected temporary secretary. The Committee worked on drafting a constitution and by-laws, and held the first regular meeting, which was purely a business meeting, at 3:00 p.m. on September 10, 1894 at the Broadway Central Hotel, in New York, New York. There were seventy-five people who accepted the invitation and became charter members. Mr. Smith chaired the meeting, and Mr. Hart was secretary.

In his opening remarks, Mr. Smith defined the objects, advantages and policy of this proposed society. He spoke about the importance of good fellowship to the society's success, especially with respect to discontinuing the practice of discrediting another engineer's work when presenting a competitive bid. "It is only through the united efforts of the members of the society that we may expect to attain that improvement for which we are looking," said Mr. Smith. "There is no reason in the world why the society cannot, if properly managed, aid us in raising a high standard of work, and regulate the price we ought to get for our work.

The first order of business was to choose a name for this new society. The debate that followed was long and spirited. Discussions included whether to stay just in America or to include "International" in the name since



foreign engineers had been invited to become members. It was finally decided that the heating and ventilating engineering required in America alone would be a sufficient task for the society for many years. It was decided to call the society be called "**The American Society of Heating and Ventilating Engineers (ASHVE).**"

Much more discussion occurred on the proposed Constitution and By-Laws section by section. Section 4 in Article 1 of the Constitution clearly stated eight objects of the Society that would guide its work in years to come:

- The promotion of the arts and sciences connected with heating and ventilation, and to encourage good fellowship among its members.
- Improvement in the mechanical construction of the various apparatus used for heating and ventilation.
- The maintenance of a high professional standard among heating and ventilating engineers.
- To establish a clearly defined minimum standard of heating and ventilation for all classes of buildings.
- To favor legislation compelling the ventilation of all public buildings in accordance with the standard of this society.
- To encourage legislation favorable to improvement in the arts of heating and ventilation, and to oppose legislation inimical to the business of the engineer.
- The reading, discussion, and publication of professional papers, and the interchange of knowledge and experience among its members.
- To establish a uniform scale of prices for all professional services.

The final order of business was to elect officers to serve until the annual meeting. The Constitution and By-Laws stated that the affairs of the Society would be managed by a Board of Managers and a Council that would review membership applications.

The Society was incorporated in the state of New York on January 24, 1895. To comply with the laws of this state, the date of the annual meeting was specified in the Constitution as the last week in January. Accordingly, the charter members agreed to have their first annual meeting in January 1895, at which time papers on heating and ventilation topics would be read and discussed. The Constitution also specified that the Society would have a Semi-Annual meeting as well, though the first one would not occur until 1897. The dates of January 22-24, 1895 were confirmed for the first Annual Meeting, and President E.P. Bates called the meeting to order at 10:50 a.m. on January 22, 1895 in the hall of the American Society of Mechanical Engineers (ASME), 12 West 31st Street, New York.

Secretary Hart reported that the Society had seventy-five members, and it was reported that since its founding, the Society had received \$750.00 and had expended \$256.82 for a total of \$493.18 cash on hand. The Constitution and By-Laws established four levels of membership: Members, Honorary Members, Associates and Junior. Members and Associates were required to pay an initiation fee of \$15.00 and annual dues of \$10.00. The initiation fee of Junior members was \$10.00 and their dues were \$10.00. A Junior member, being promoted to full membership, paid a further initiation fee of \$5.00. Honorary Members were defined as "distinguished persons elected by the society." Within two years, membership rose from 75 to 109 members

Please note: information excerpted from information available from ASHRAE website through the Historical Committee links - "Proclaiming the Truth" – Chapter 1.

Respectfully Submitted, Randy Schrecengost, Historian

Vintage HVAC Advertisements, 1929

On January 1st, 1929, unbeaten Georgia Tech faced the once-beaten University of California in the Rose Bowl and UC's Roy Riegels runs 60 yards the wrong way with a fumble recovery. On February 14th, the St Valentine's Day Massacre occurred in Chicago and 7 gangsters were killed, allegedly on Al Capone's orders. Herbert Hoover is inaugurated as 31st US President on March 4. Lou Gehrig hits 3 consecutive HRs (Yankees 11, Tigers 9) on May 4th.

May, 1929 Heating-Piping
and Air Conditioning 35

There is a way to make ~ ~ "Every day a good day"

Carrier Manufactured Weather is freeing industries from daily and seasonal weather variations — is creating healthful conditions for people within doors.



THEATRES—hotels—offices—department stores — wherever people gather, Carrier Manufactured Weather is providing pure, cleansed air at the condition of temperature and humidity contributing most to healthful comfort and efficiency.

Factories too, in more than two hundred industries have turned to Manufactured Weather for the controlled drying and processing of materials, for control in manufacturing weather-sensitive products, for uniform production for reduced spoilage, for the health and efficiency of workers.

Manufactured Weather, the science of Air Conditioning, has been developed and applied in industry by Willis H. Carrier and his associates. And through this science industry has profited enormously. Often a system has *paid for itself the first year*. More startling returns are common, considering only material gains in production. To this must be added the tremendous value of the heightened efficiency and morale of employees working—winter and summer—in a healthful, comfortable atmosphere.

To manufacturers, owners and operators of public buildings—to architects and engineers—the services, equipment and long experience of Carrier Engineers are offered in the solution of indoor weather problems.

WILLIS H. CARRIER

Through careful scientific research he discovered and formulated many important laws governing the moisture and heat properties of the atmosphere. He initially developed and applied much of the equipment and the instruments which today are creating and controlling any desired conditions of temperature, humidity and air movement within buildings. He invented and brought to its present state of perfection Carrier Centrifugal Refrigeration.

**SOME NOTABLE USERS of
CARRIER SYSTEMS**

- House of Representatives in the Capitol at Washington
- Roxy Theatre, New York
- Schrafft Chocolates
- Gillette Razors
- Wrigley's Gum
- Postum Cereals
- National Broadcasting Studios
- Camel Cigarettes
- Bayuk Cigars

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CÄRRIER LUFTTECHNISCHE GESELLSCHAFT
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Manufactured Weather makes "Every day a good day."

Carrier Engineering Corp. Carrier Engineering Corp. ad from the May 1929 issue of Heating Piping and Air Conditioning

Please note: information excerpted from: HPAC Engineering, Edited by Connie Conklin, 05-01-2014
Respectfully Submitted, Randy Schrecengost, Historian