

## Chapter History for Society Year 2008-2009

The 2008-2009 Society year of ASHRAE began in the Austin Chapter (066) on August 21, 2008. The new President Gordon Hall began his term promoting volunteerism for our local Chapter. As we began the ASHRAE year, President Hall hoped each member would consider how they could participate in the Chapter and ASHRAE Society at large. He expressed the fact that there were many opportunities to volunteer, and we were looking for those willing to lend a hand. Like many predecessors, President Hall had a high energy level and ideas to make his year run smoothly, and he started the year by having June and July (summer) BOG meeting to express his goals for the year.



During the Chapter Year 2008-09, the following members were elected and worked diligently throughout the year:

<b>President</b>	Gordon Hall (CRC Del)	<b>BOG#1</b>	Thursten Simonsen, P.E. (Research)
<b>Pres. Elect</b>	Charles Whitten, P.E. (Newsletter/CRC Alt)	<b>BOG#2</b>	<b>Open.</b> (Nominating/Audit)
<b>V. President</b>	Joe Reyes, P.E (Programs)	<b>BOG#3</b>	Randy Schrecengost, P.E. (History/Awards)
<b>Treasurer</b>	Andy Collier	<b>BOG#4</b>	John Dolliver (PAOE / Membership)
<b>Secretary</b>	Mark Mikulin	<b>BOG#5</b>	Ryan William (Student Activities)

Austin's ASHRAE BOGs oversee many of the Chapter's activities, and serve as Chapter Representatives contacts for general information and for Committee involvements. Other local members will occasionally provide support in required tasks as called upon to do so. The Chapter's active member roster is being filled more and more with former Officers or BOGs members as the Chapter ages. Committee members were as follows:

<b>Reception/Phone Comm</b>	Margaret Bigger	<b>Honors&amp;Awards</b>	Randy Schrecengost P.E.
<b>Student Activities</b>	Wes Van Rite	<b>Web Master</b>	Steve Jaeger, P.E.
<b>PP Council / Auditing</b>	<b>Open</b>	<b>Membership</b>	John Dolliver
<b>Roster / Seminars</b>	R. Schrecengost, P.E.	<b>Refrigeration / CTT</b>	Matt Gross

### AUGUST

The Austin Chapter of ASHRAE began its Fifty-Third (53nd) year with an August 21st meeting at the County Line on the Hill. The general meeting structure of the Chapter remained unchanged with the BOG meeting at 4:30 p.m., Social time / Technical Session from 5:30-6:00 PM, then Business Announcements while dinner is being served at 6:15 PM. The Program usually starts by 6:30 or 6:45 and runs until about 7:30 PM. The cost of the meal was remained the same at \$25/person.

At the beginning of the dinner, President-Elect Charles Whitten began the business portion of the meeting with a round of self introductions. President Hall was unable to attend, so as is required, the President-Elect assumed the duties as President. He officially called the meeting to order and indicated the theme for the meeting was **Membership Promotion Night**. The incoming President Hall's ideas and goals for all the activities planned for the Chapter's Society year were reviewed. Some notable planned activities included a guest appearance from our Region VIII DRC in the December time frame. President Hall has also challenged all Chapter members to consider donating to Research Promotion and try to make a minimum \$100 donation as this was what all the Chapter Officers and BOGs had pledged.

The Technical Session for this month was provided by Randy Schrecengost, P.E. on "Fan Basics 201: Arrangements and Classes". This was a follow-up to the March 2008 "Fan Selection and Sizing 101". The program was presented by Mr. J.C. Dromgoole, a leading industry expert in water treatment systems. He presented a variety of technical issues for consideration in the specification, operation, and maintenance of water treatment systems for industrial, commercial, and municipal applications. Mr. Dromgoole covered all aspects of water usage from the time it enters a building until the time it leaves, including softeners, demineralizers, and reverse osmosis equipment. In addition, he provided an in-depth review on boilers, condensers, and cooling tower water treatment options.

The August Newsletter summarized the results of the Chapter's 2007-08 financial year with Income at \$45,309 versus a budget of \$38,000. A large portion of our income came from the annual ASHRAE Golf Tournament that which generated \$28,855 at an expense of about \$10,610. Once again, our illustrious member Glenn See did a fantastic job and gave out free cigars to all that wanted one. Most of this money went to help raise \$17,125 for the ASHRAE Research Promotion goal.

This first meeting of the year had a total of 45 people (Life Members: 4, Member or Associate Status: 28, Guests: 12, Students: 1).

## **SEPTEMBER**

Our meeting for September was held on the 18th and again at the County Line on the Hill. Our meeting program was presented by Tony Digmanese, Director of Industry Relations for Johnson Controls. He presented on major global shift trends in the application of refrigerants. Mr. Digmanese provided background of information on both the Montreal Protocol and the Kyoto Protocol, and their applicability to common refrigerants found within the HVAC industry. Environmental, safety, and performance factors were discussed and examined for their role in the global shift trends. The Technical Session for this month was provided by Jeremy Smith, P.E. on "Refrigeration Basics":

Other business regarding decisions from the BOG meeting was briefly covered for general information to the members. Of particular interest was a plea for help from anyone who may have ideas for future programs with the knowledge that the November and December meetings would be at lunch.

The attendance at this meeting was 43 people consisting of: Life Members 1, Member or Associate Status 29, Guests 13, Students 0.

## **OCTOBER**

This month our dinner meeting took place at the LCRA Red Bud Center. We had a great fajita buffet served for \$25 with a presentation given, and coordinated with a tour, of this LEED rated building.

The main program covered the Lower Colorado River Authority's (LCRA) Emergency Operations Center at Red Bud. The 35,400 sq. ft. Red Bud Center show-cased the LCRA's environmental leadership and commitment to sustainable practices. The center was designed to achieve a U.S. Green Building Council LEED® Gold certification. At the time of the meeting, the project has already been awarded a Four-Star rating from Austin Energy's Green Building™ program. Notable sustainable features of the project included a high-efficiency HVAC system, a 31,100 gallon rainwater harvesting system, and a day lighting strategy that maximized natural lighting to occupied spaces while minimizing fenestration solar heat gain. In addition, an innovative outdoor model of the entire Lower Colorado River lake chain allows visitors to interactively modulate water flows at various points, demonstrating affects on both upstream and downstream river conditions. The various green building strategies incorporated into the Red Bud Center design are expected to save 31% in annual energy costs, and an impressive 83% in annual water usage. Members of the project "local" design team, included Guy Dawes (LCRA Project Manager), Shawn Allen, PE (Jose I. Guerra, Inc. Consulting Engineers), and Lauren Goldberg, AIA (Barnes Gromatzky Kosarek Architects).



We held the Board of Governors meeting earlier in the week on Monday. One of the exciting items for discussion and announcement was that the Chapter had organized a Sporting Clays Fund Raiser after several years of not having one. The event was scheduled at the Capitol City Trap and Skeet Club on Friday, October 10<sup>th</sup>. President Hall encouraged everyone to SIGN UP! The Treasurer, Mr. Andy Collier announced that the Chapter continued to maintain a healthy balance in the bank of \$9,202. During the meeting's business session, the Seminar's Chairman Randy Schrecengost announced an upcoming seminar on "Hot Water Systems Applications" to be presented by Mr. Dan Sheko and Mr. David Olson of Lochinvar Corporation on December 17. The seminar was a morning one from 8:00 a.m. to 11:00 a.m. and would cover topics such as Variable vs. Constant speed and Primary / Secondary applications, system volumes and pipe sizing and boiler controls.

The attendance at this meeting was 43 people consisting of: Life Members 0, Member or Associate Status 29, Guests 13, Students 0.

## **NOVEMBER**

The November meeting for the Austin Chapter of ASHRAE used to be a time off due to a lack of interest in meeting during the "Thanksgiving" month. However, this month's meeting was the first of two LUNCH meetings for the year. The meeting was also held at the County Line on the Hill, on November 20<sup>th</sup>, and we had a special guest visit from Region VIII DRC Kenneth Fulk. Our program presentation was on "Fundamental of Geo-thermal

Heat Pump Systems” from Mike Johnson with The Trane Company. Lunch was served promptly at 11:30 for \$25. We held the Board of Governors meeting place prior to the main event at 10:30 a.m.

During the business meeting it was announced that the fund raiser skeet shoot at Capitol City Trap and Skeet Club and was a huge success and a lot of fun. The RP contributions for this event came in at \$3,000! We announced the Chapter’s appreciation for participating in supporting Austin ASHRAE’s RP efforts. Special thanks went out to Randy Barrington of Robert Madden, Inc., for a safe well run event and for his leadership with the Sporting Clays Fund Raiser!



The Treasurer, Mr. Andy Collier announced that the Chapter continued to have a healthy balance in the bank of \$12,851. The Chapter continued to promote Research. There was a very good attendance level for this lunch meeting.

**At right is the First Place Team for the Sporting Clays Tournament: M&M with a score of 320 of 400; Chris Van Rite, Wes Van Rite, Alan Colley, and Steve Payne**

### **DECEMBER**

Similar to the November meeting, the Austin Chapter had a lunch meeting in December. The meeting was again held at the County Line on the Hill, but it was on a Wednesday, December 17<sup>th</sup>, and went from 11:30 AM to finished by 1:00 PM. President Hall asked all members to make their ASHRAE Austin Research contributions.

Mr. Dan Sheko (Southern Sales Manager) and Mr. David Olson (Regional Sales Manager) of Lochinvar Corporation presented on the design and application of heating water systems. The topics addressed included an overview of condensing boilers, boiler controls, proper system volumes and pipe sizing, code-compliant venting options, and common heating water flow issues. In addition, an overview discussion of variable speed vs. constant speed pumping arrangements and primary/secondary system arrangements was also presented. This presentation was an extension of the earlier ASHRAE applications design seminar held prior to the lunch meeting as organized by Seminar’s Chairman Randy Schrecengost, P.E.



The meeting had the largest crowd yet for the year with 61 people attending. The seminar brought in about \$800 for ASHRAE Research Promotion

**At right: Matt Gross of Texas Air Products takes a shot during the sporting clays tournament.**

### **JANUARY**

Our January 15<sup>th</sup> meeting found our chapter back to its regularly scheduled evening meetings at where else - the County Line on the Hill Restaurant on Bee Cave Road. The meeting began at the regular time of 5:00 p.m. with our Social Hour following the scheduled BOG meeting; and the Chapter’s typical January meeting was on Engineering Ethics.

As usual, attendance was high (80 people) as most professional engineers still needed their 1 hour of credit toward their licensing requirements. The speaker was C.W. Clark, P.E., Director of Compliance and Enforcement for Texas Board of Professional Engineers. Mr. Clark manages the day-to-day operations of the Compliance and Enforcement division including policy advisories, investigations of enforcement cases against violators, and providing outreach programs to educate the public and licensed engineers on engineering matters pertaining to the Engineering Practices Act. Mr. Clark provided an overview of recent TBPE activities and rule changes that took effect over the previous year.

The Technical Session was on “Noise and Vibration Control” by Mr. Jack Evans, PE (JEAcoustics). He presented on the fundamentals of noise and vibration control as it applies to the HVAC industry.

### **FEBRUARY**

The February meeting was on February 19<sup>th</sup>, at the County Line. The scheduled activities began with the Social at 5:45 p.m., and followed through to Dinner at 6:30, and the Program at 7:00 p.m. A technical session was organized and began at 5:45 p.m., presented by Mr. Kevin Ratliff of Goes Sales of Texas. He covered “Hybrid Boiler Systems: Design Considerations”.

Mr. Paul Pieper, Eng. (Marketing Manager, Venmar CES, Inc.) lead a detailed discussion on air-to-air energy recovery systems, and its application in today's high-performance buildings for the main program. As Chair of ASH-RAE TC 8.12 - Desiccant Dehumidification Equipment and an ASHRAE Distinguished Lecturer, Mr. Pieper brought an exceptional depth of knowledge and experience in this expanding green technology area. He briefly discussed how ASHRAE continues to move toward net zero energy buildings and a sustainable future for the built environment. He covered how many designers struggle with the seemingly conflicting requirements of the latest standards, codes and guide-lines when trying to provide high performance HVAC systems that are energy efficient and capable of delivering superior IEQ. He covered an overview of current and proposed standards and guidelines to identify areas where energy recovery is mandated and where energy recovery can be employed to meet and exceed performance requirements for efficiency, thermal comfort and ventilation air.

The Chapter continued to heavily promote our Research efforts and the upcoming golf tournament where a good chunk of our money is raised, as well as attendance to the annual CRC (Chapter Regional Conference) to be held in Lubbock this year in late April. The Chapter treasury contained \$12,336. We had a total of 55 people attend this meeting.

### **MARCH**

The March meeting was held on the 19<sup>th</sup>, again at the County Line on the Hill, and it was Research Promotion Night. Our President, Gordon Hall indicated that all of the Austin Officers had each donated \$100 for the "Circle". He challenged the membership to each donate no less than \$50 per person as a minimum. Our overall chapter goal was to be over the \$100 per member mark.

A technical session was organized on "Fan Selection and Sizing – Part 3", presented by Randy Schrecengost, P.E. of Stanley Consultants, and began at 5:45 p.m. This was the final segment of a three part series. The Main Program was on "Natorium Design and Dehumidification" by Mr. Ralph Kittler, PE (Seresco Technologies). He lead an in-depth discussion on natatorium HVAC design and the unique engineering and operational challenges associated with these facilities. Mr. Kittler's presentation addressed fundamental concepts such as psychrometrics and dew point, as well as advanced application concepts including humidity/condensation control, moisture load calculations, ventilation requirements, and water chemistry. Mr. Kittler also lead a discussion on the optimization of environmental operating conditions with an emphasis on minimizing operating costs.



The Chapter promoted the 2009 Annual ASHRAE Golf Tournament being held on Friday, May 2, 2008 at the Lakeway Golf Club – Yaupon Course. There will be a 1:15 Shotgun Start.

We had 42 people in attendance with 3 of those being life members.

### **APRIL**

The month of April is the "birthday" month for the Austin Chapter as we always commemorate our original Charter of April 8, 1956. This year we celebrated our Chapter's 53<sup>rd</sup> Anniversary. The Chapter's history has been touched upon several times from its growth out of the original ASHVE (American Society of Heating and Ventilating Engineers) meeting group existing in Austin in the 1950s. As usual, this author compiled a brief power point presentation for the Region VIII CRC.

The monthly "Austin Register" newsletter was delivered and provided different pieces of information regarding monthly events planned for the Chapter. The biggest event was the Annual Golf Tournament at Lakeway Golf Club.



The April meeting was held at the County Line BBQ restaurant as usual. There was no technical session as the extra time was needed to install the new Officers and BOG. Our evening speaker was Mr. Andrew Baxter of Page Southerland Page, LLP. Mr. Baxter covered "Modern Energy-Efficient Data Centers" and led a discussion on the design of modern mission-critical data center facilities, with an emphasis on sustainability and energy-efficiency as well as traditional reliability. Compared to only a few years ago, the rapid evolution of IT technologies has created significant challenges for both power and cooling systems in data center facilities. As white space power densities have increased exponentially, the need for more energy-efficient systems has driven owners, engineers, and equipment manufacturers to seek more innovative solutions than ever before. Mr. Baxter covered several emerging trends in data center design including the use of heat recovery, air- and waterside economizers, and tiered chilled water systems.

## **MAY**

The May meeting was held at the County Line as a lunch meeting and was the last meeting of the Chapter year. The Chapter always takes it easy in May and reviewed the year's successes and determined where we needed to work harder on the coming year. The Business topic was 2009-2010 Officer and BOG Inductions.

The Main Program: "ASHRAE Society Update", was provided by Society resident, Mr. William (Bill) Harrison, who directs the Society's Board of Directors and oversees the Executive Committee. His presidential theme, Maintain to Sustain – Delivering ASHRAE's Sustainability Promise, focuses on operating buildings to deliver the energy efficiency inherent in their design, including effective commissioning, improved documentation, and programs to educate and certify building operators. Mr. Harrison is also chair of the Headquarters Building Renovation Committee. Mr. Harrison received a Bachelor of Science in industrial engineering from the University of Arkansas.

President Gordon Hall thanked all the hard working Officers for their support, as well as all the BOG and committee members who stepped up to assist. He also thanked all the other silent volunteers, the company secretaries and others, for a "job well done". He tasked the newly elected Chapter Board and Officers to commit to making next year a really great one.

## **JUNE - JULY**

The Austin Chapter does not hold regular meeting during the months of June and July, but typically meets as the BOG. The Chapter BOGs and Officers spend the time reviewing goals and objectives, and getting organized for the upcoming Society year.

Respectfully Submitted,

Randy Schrecengost, P.E., Historian