



CENTRAL ARIZONA CHAPTER

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

ASHRAE Central Arizona Chapter

Dust Devil



MESSAGE FROM THE PRESIDENT

By Tiffany Bates, Chapter President

It has been an honor and my pleasure to serve as our local ASHRAE Chapter President this year. Even though it is already so hot out there, I know we are all excited to be living in the Valley where all facets of our industry are booming! I am proud to know a lot of the talented consulting and sales engineers and contractors who are building so many unique and successful projects! Our chapter Board of Governors knows that everyone is super busy and time is precious, so, in order for you to plan ahead, our chapter Board of Governors' goal was to get a schedule set for the entire year before our first meeting and to provide useful presentations with top notch speakers and fun events. We successfully accomplished this goal and have had a great turn-out at each meeting! We have also made a concerted effort to do a better job at keeping you posted about the current Research Projects going on at ASHRAE. These are the projects that truly help move our industry forward.

As president this year, it has been my personal goal to focus on community connectivity and working together to make our Valley a sustainable place to live. This can only be accomplished with your help! Please continue to attend all of the events we have planned for you so you can network and share ideas with your fellow Arizona neighbors. Member involvement is key for the success of ASHRAE and our community. To help you meet this challenge the BOG and I are focusing on sustainable topics this year, holding joint meetings with ASPE and BOMA, and trying to work with ACE, ACCA, SMACNA, the USGBC, and

the City of Phoenix. We have also joined Valley Forward so that all of our members can be involved in this fantastic organization.

A huge part of making our Valley become and stay sustainable is the education of and the involvement with the youth of our community. Our second meeting in October was a joint meeting with our new Student Chapter in order to help establish professional mentors for our student members. This will help our industry grow and maybe even help your company grow! We would also like to ask for your continued involvement with an E-week event for junior high school students and AZ Construction Day which focuses on education for kids in High School. Both of these events take place annually at the end of February.

I look forward to seeing you throughout the remainder of this year. Please do not hesitate to contact me personally if you have any questions about anything above. We are always open for suggestions and comments; again, our chapter and community can not be successful with out you! Let's make this the best year ever!



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BLACK HISTORY MONTH – AN HVAC PERSPECTIVE

By April Ricketts – Central Arizona Chapter President Elect

While February is **Black History Month**, there is reason to celebrate the contributions of Black HVAC forefathers all through the year. I thought it would be nice to highlight a few of the Black inventors who have helped to usher in advancements in the plumbing and HVAC industries:

Norbert Rillieux – invented the multiple-effect evaporator, which he designed during the 1820's. He built his first prototype in 1834 and constructed the first industrially practical evaporator in 1845. Originally designed for concentrating sugar in sugar cane juice, it has since become widely used in industrial applications where large volumes of water must be evaporated, such as water desalination.

Thomas Elkins – submitted a patent for an improved chamber commode on January 9, 1872.

John O'Conner – submitted patents related to steam gages (1896) alarms for boilers (1896), and alarms for water containing vessels (1898).

William Henry Phelps – submitted a patent for an apparatus for washing vehicles on March 23, 1897.

Jerome Bonaparte Rhodes – submitted a patent for improvements on the water closet on December 19, 1899.

Alice H. Parker – patented a new and improved gas heating furnace that provided central heating on December 23, 1919.

Lionel F. Page – submitted a patent for an auxiliary circulating device for automobile heaters on August 22, 1939.



2007- 2008 PROGRAMS AND EVENTS

By Christine Young – CTTC Committee Co-Chair

Throughout the year, the Central Arizona ASHRAE chapter has hosted a myriad of distinguished speakers and social events. The topics have ranged from solar energy to the history of ventilation and social events including our annual product show and an interactive tour of the ASU Biodesign Institute.

We are looking forward to our meeting with the ASHRAE society president, Kent Petersen P.E., on April 15th. Kent Peterson will be discussing his theme, *Greater Efficiency Today, Blue Skies Tomorrow*. Mr. Petersen emphasizes innovation in the quest for sustainability in the built environment and challenges ASHRAE members to become more radical in their ideas, providing energy efficiency as an elegant alternative to fuel consumption.

- September 11** We had fantastic attendance at the first meeting for the 2007-2008 year! Robert Sty, our chapter past president gave a very informative presentation on LEED & Standard 90.1. We were also visited by our regional CTTC chair, Rick DesLauriers.
- October 2** Hosted by NEBB, this joint meeting with our Student Chapter included a presentation by the NEBB Technical Director, Andrew Nolfo. Mr. Nolfo educated us on "designing for proper balancing, adjusting and testing".
- November 13** We were fortunate to welcome ASHRAE Distinguished Lecturer, Max Sherman, to this lunch meeting. The presentation provided us with a very engaging look at the history of development of ventilation systems and ASHRAE Standard 62.2.
- December 5** Our 14th Annual Product Show! A joint venture with the local ASPE chapter, the event was held at Macayo's Depot Cantina in Tempe and it was a success. The venue was great, the food was tasty, the weather was perfect, and the vendors provided some impressive displays.
- January 8** John Balfour spoke about Solar Energy and Technologies and Diane Brossart with Valley Forward told us about some of the exciting things that are happening in our community and how we can become more involved.
- February 8** Members had an opportunity to tour the impressive ASU Biodesign facility, which has achieved LEED Platinum Certification! A good number of people were able to make it on the tour and join us at Four Peaks Brewery afterwards for a nice cool refresher.
- March 4** Our highest attendance this year, our March meeting was a huge success! This was a joint meeting with BOMA and gave us a unique perspective on the construction process. An interactive panel comprised of representatives from the engineering, property management, facilities operations and building ownership professions provided answers to some very probing questions.
- April 11** The ASHRAE Annual Golf Tournament! Held at Stonecreek Golf Course, you can learn more about the tournament on page 3 of our newsletter.
- April 15** This is the meeting to not miss. Our ASHRAE Society President, Mr. Kent Peterson will be joining us for our final dinner meeting, held at the Arizona Club in downtown Phoenix.
- May 6** The last meeting of the year will also be held at the Arizona Club. This lunch meeting will address the topics of water issues and updates from the City of Phoenix. Hope to see you there!

THE 2008 ASHRAE GOLF TOURNAMENT

By David Anderson, Chapter Golf Chairperson

This year's Arizona Chapter ASHRAE Golf Tournament is raised over \$7,000 benefiting the National ASHRAE Research Promotion. This is a very fun way to support a great cause. Since 1960, ASHRAE has sponsored research studies at universities and research firms. The results of these studies have been used in the preparation of chapters in the ASHRAE Handbook series, in special publications and in the formulation of standards. Almost all projects have been reported in presentations made at Society meetings or conferences and have been published in ASHRAE *Transactions* or in conference proceedings. These projects have also been beneficial in training university students as they prepare for service in the HVAC&R industry.

This year's event was held on Friday, April 11th, with a shotgun start at 7:30 am. It was once again located at Stonecreek Golf Club, 4435 East Paradise Village Parkway. The format was a four person scramble. Golf fees included cart rental, range balls, raffle and flag prize opportunities and a barbeque lunch.

Didn't make it this year? No worries!

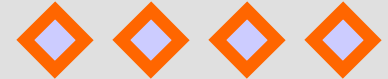
We will continue to host this event next year and we would like to keep all participants informed of the process. The golf course requires the event host to provide them with the number of golfers that we will have at a time two weeks prior to the event. We are then required to pay for that many golfers. Therefore, the sign-up sheet indicates and encourages you to get your participation form and payments in prior to that due date. Entries with payment received prior to that date receive a discounted rate. Entries can still be accommodated after that date, but they do not receive the discount. We thank you for your understanding. As with most ASHRAE events, we have several opportunities to volunteer and network! If you are not a golfer, but would still like to join the fun and help the cause, we are always looking for volunteers to help with golfer registration and spotting par three holes. This will allow you to get to see everyone and enjoy the fun. Next year's event flier will be emailed around and will be passed out at Chapter meetings. Please join us – we are expecting a lot of fun in support of a great cause!



ASHRAE CENTRAL ARIZONA CHAPTER – MAKING HISTORY!

By Cindy Hyatt, Historian and Newsletter Chairperson

Arizona might be one of the youngest states in the US, but our history is great. The same can be said of our local ASHRAE Chapter. Our story is one that dates back to 1953, and this year our chapter has made a commitment to collect and share that history. I am very pleased to announce that "COMING SOON!" we will proudly be displaying our chapter history in the newly established Chapter Archives! Records, photographs, chapter icons and memorabilia, and HVAC resource materials will be housed in a space located at Norman S. Wright's facility (2121 E. Magnolia Street, Phoenix, AZ 85034, ph: 602-275-4467). Norman S. Wright is an organization who has a long history in the valley and with ASHRAE. Its founder, Bob Langmade was our Chapter President in 1963 and his daughter, Dianne Langmade, also served as Chapter President in 1994. Their on-going contribution to ASHRAE is greatly appreciated and we are grateful for the space that they have donated to house our archive. If you or your company has any materials that you would like to donate for inclusion in the Central Arizona Chapter Archive, please contact Cindy Hyatt @ 602-989-3056.



Chapter Officers and Contacts

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STUDENTS BRING SUN DEVIL PRIDE TO ASHRAE'S CENTRAL AZ CHAPTER!

By Nick Rosenberry, Chapter Treasurer

This has been the first year for the Arizona State University (ASU) Student Branch of the ASHRAE Central Arizona Chapter. The first meeting was held on August 30, 2007. In the first year as an organization, the student branch has held seven organizational meetings as well as volunteering and helping to organize the first Engineering Career Fair at ASU. The student branch has also toured the ASU CHP plant, and participated in the ASU Student Government.

The main goal of the ASU Student Branch was to become a self-sufficient chapter and increase awareness of the HVAC Industry within the university. The student officers now plan and run each meeting autonomously. The student officers have gained a great deal of knowledge and honed their Leadership skills, particularly the student branch president. Regular monthly meetings continue to be held with expert guest speakers from the HVAC industry. Once the student branch became self-sufficient, a greater emphasis was been put on increasing awareness of sustainability as it relates to the design of building technology systems.

ASHRAE is an important student group for ASU because it gives on-campus attention to an industry that is often overlooked. The student branch also gives local representation to an industry that is presently growing and in need of engineers. This has been a great way for students to establish connections with companies within the HVAC industry. Several student branch members have signed on with local companies for internships and/or jobs as a direct result of their involvement with ASHRAE. Many of the local companies in our industry inquire about the student branch and are anxious to get involved.

As seems to be standard in our industry, the biggest challenge for the ASU Student Branch has been recruiting. There has been great interest from the senior class, but getting the underclassmen involved has continued to be a challenge. Involvement from the other classes is necessary to create a chapter that will be truly self-sufficient once the current class graduates. In order to combat this issue, the current officers have made a concentrated effort towards networking with other existing student groups to promote and establish the ASU Student Branch of ASHRAE. The faculty advisor for the student branch is also promoting ASHRAE and encouraging his students to attend the meetings. The Central Arizona ASHRAE chapter is contributing to the student chapter out by offering a number of scholarships to qualified student members.

Overall this has been a great year for Central Arizona ASHRAE Student Activities Committee. We look forward to continuing to help the ASU Student Branch gain momentum as well as expanding student activities to include branches outside of Arizona State University.



THE TREASURER'S REPORT

By Gary Nelson, Chapter Treasurer

The year 2007-2008 has been an exciting year for the Central AZ Chapter! We had three meetings in the fall with one at the NEBB facility in Tempe, a December product show with ASPE, a January meeting, a tour in February, and a well attended March meeting. And, we can't forget the very successful golf outing last week.

The chapter volunteers have worked hard to keep the meeting meal costs stable while still covering the costs of the meals, venue, tables and service. With the support of the local HVAC industry, we were able to make \$4000 at the annual product show; \$2000 of that was donated to the ASHRAE Research Fund and \$2000 has been allocated for student scholarships for qualifying members of our ASU Student Branch. Likewise, over \$6000 was raised at our annual golf tournament for ASHRAE Research Fund! The fifty-fifty drawings that are held at each meeting has also contributed towards the ASHRAE research fund each month. We are looking forward to a great turn-out at the April meeting, which will feature our Society President, Kent Peterson. While things are coming to an end for this ASHRAE year, we are already looking forward to the 2008-2009 ASHRAE year.



Please visit our website for more information:

<http://centralaz.ashraechapters.org/>

We would like to know how we are doing. What we've done right, what we've done wrong, and what we haven't done at all! If you have any suggestions on how we can improve our chapter, or any ideas for next year's meeting topics, please e-mail me at chyatt@azme.com or contact any of the board members.

Thank you