

ASHRAE BLUEPRINT

April 2007

PRESIDENT'S MESSAGE

Rob deWit

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CTTC
Sean O'Connor

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Kurt Bassett

Honors & Awards
Bob O'Connor

Resource
Rob Marshall

Newsletter
Darrell Herman

Chapter Webmaster
Corey Streyle

Special Events
Jeff Rentschler

Reception
Jeff Thorson

PAOE Watch Dog
Marty Christensen

As spring rapidly approaches, we will be having our last monthly meeting on April 4th. We will be having our second and last student night along with scholarship distributions. Hopefully everyone can make it to the meeting and take the time to thank the students for coming and encourage them to continue supporting ASHRAE.

I would especially like to thank all of the committee chairs and volunteers that have helped us with ASHRAE this year. Your time and effort sometimes goes unnoticed or unappreciated, but we all value your efforts.

If anyone would like to join a committee, please contact our incoming president, Kasey Abbott, and he would be happy to find you a position.

See you at the Westward Ho on Wednesday, April 4th—Social Hour 5:30, Dinner 6:30 Meeting/Program 7:15.

CTTC Chair, Sean O'Connor

Jami Billman, Internal Sales Engineer for Daikin AC (America) Inc., has been in the HVAC industry since January of 2004. She attended college at Purdue University in West Lafayette, Indiana from 1999 until 2003 and holds a Bachelor of Science degree in Industrial Engineering with a minor in Business Management. Jami has worked for Johnson Controls as well as York. Jami joined Daikin's Sales Team in October of 2006. She currently resides in Grapevine, TX and is a member of ASHRAE, Women in HVACR and ACCA.

Jami will be discussing Variable Refrigerant Flow technology. Variable Refrigerant Flow Technology provides an alternative method to traditional systems for comfort cooling and heating applications. Developed in Japan in 1982, VRF Technology has been widely used in the International market. Today, it is emerging quickly in North America due to rising concerns with energy consumption and the environment.

The VRF system is a Direct Expansion System with the ability to connect multiple evaporators to a single condensing unit. The output of the equipment varies depending on the required load of the facility being conditioned. Refrigerant flow from the condensing unit to each evaporator is regulated by two means: varying compressor capacity and an electronic expansion valve for each indoor evaporator. Combining these two features enables efficient performance and precise individual control, resulting in operational cost savings and absolute comfort.

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Chapter History Note

The South Dakota Chapter's Involvement with Students Kurt Bassett, Chapter Historian

Since the April chapter meeting is one of the two designated "student nights" in the meeting schedule, it seems appropriate to look back at a few of the highlights of the chapter's involvement with students.

In 1965, the chapter began holding a joint annual meeting with the South Dakota State University student branch of the American Society of Mechanical Engineers (ASME). This practice continued for several years. Chapter members from Sioux Falls took a bus to the December 1965 meeting. The cost of round trip transportation and dinner at the Brookings Supper Club was \$5.50 per person.

The first scholarships established by the chapter were for the support of students in the technology program at USD-Springfield. The first two \$200 scholarships were awarded to USD-Springfield students during the 1973-74 chapter year. Chapter members sponsored individual students as meeting guests.

Explorer Scout Post 35 was chartered in August of 1973 under the sponsorship of the South Dakota ASHRAE Chapter. The post operated for three years, ceasing operation in 1976. Insufficient student interest and lack of school support were cited as the cause of the post's demise. More than two decades later, chapter member Kasey Abbott was instrumental in re-establishing an Explorer Scout post.

In 1985, the first ASHRAE student branch under the South Dakota chapter's sponsorship was chartered at South Dakota State University. By the end of the decade, a second sponsored student branch had been established at Dordt College. Subsequently, student branches were chartered at Mitchell Technical Institute and Southeast Technical Institute.

Today, the South Dakota chapter continues its strong support of students in many ways, including branch technical programs generously provided by volunteer members, a number of annual \$500 scholarships, and chapter "student night" activities.