

ASHRAE BLUEPRINT

2009

PRESIDENT'S MESSAGE

Brent Tjeerdsma

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Vice President
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Treasurer
Bob Everson

1st Board Member
Rob Marshall

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Open

Membership
Kirby Quamen

Student Activities
John Schwartz

CTTC
Rob Marshall

Historian
Kurt Bassett

Honors & Awards
Bob O'Connor

Research Promotion
Stuart Oster

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Ryan Van Der Bill

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Isaac Anderson

Reception
Kacie Schneider

PAOE Watch Dog
Wade Myrabo

The frost on the grass and the brisk temperatures in the morning are a subtle reminder that we're well into the Fall season. Amidst all the school and church activities that have resumed, I hope you'll take the time to join us for our October chapter meeting and technical seminar.

In keeping with tradition, our October meeting has been designated as a Student Night. Please make an effort to greet and converse with our guests from the various student chapters. With new memberships at an all time low, it's more important than ever to reach out to these young men and women and promote our industry.

We're also focusing on Membership in October. We're tasked with two major objectives this year. The first is to identify and solicit new members and membership upgrades. The second is to significantly reduce delinquencies. If you're new to the industry (or have employees that are) and would like to join ASHRAE, please contact Kirby Quamen. If you are a member, please check your membership renewal status to make sure that it's current.

We're privileged to have Dr. Rad Ganesh from Twin City Fan with us this month. In addition to our program, he'll be conducting a technical session from 2:30-4:30 PM. Please see the "CTTC" section of the newsletter for details.

In an effort to respect and preserve the evening commitments and priorities of our members, we're moving the **social time up to 5 PM, dinner at 5:30 PM, and program at 6 PM.** I welcome your feedback and ideas, and look forward to seeing you at the Ho.

Please RSVP

Please remember to RSVP for the meeting and/or technical seminar by calling Danielle at 605-336-8500 or emailing at Danielle.Hanson@Trane.com.

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Since the October 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 South Dakota 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 due to insufficient student interest and lack of school support. 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.

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We are pleased to have Twin City Fan representatives Rad Ganesh, Mike Szczepanski, and Zach Nelson as our guest speakers for this month's ASHRAE meeting. Rad will be conducting a technical seminar in the afternoon followed by the dinner presentation. The cost of the Technical Seminar will be \$50/person. All proceeds will go towards ASHRAE research. **Please email Danielle Hanson (Danielle.Hanson@Trane.com) if you plan on attending the technical seminar.** Let's show our support for our guest speakers and ASHRAE Research and fill the room for the technical seminar!

Technical Seminar – 2:30 – 4:30 pm

Fundamentals of Airflow, Fans and Duct Systems:

Topics included - Air fundamentals; Volume, pressure and power; Fan laws, Temperature and altitude effects; Understanding fan curves.

Fan System Effects:

Topics included - Causes of non-performing systems; Using system effect factors to estimate losses; Duct system design considerations.

Dinner presentation – After meal.

Selecting the Right Fan:

Topics included - Fan types (centrifugal vs. axial fan) and performance characteristics (airflow, sound, efficiency and power); Considerations for selecting the proper size, application and fan selection.

Presentation Team Biographies

Rad Ganesh, PhD, PE

Dr. Ganesh has over 22 years experience in the HVAC and Fan industries. His current responsibilities include product development, customer testing, application support and lab management. Prior to TCF he spent 11 years in product development at the Trane Company. He has 3 patents to his credit and has made several presentations at ASHRAE, AMCA and company training seminars. He has served on several AMCA and ASHRAE committees. Dr. Ganesh received his PhD in Mechanical Engineering from the University of Missouri-Rolla in 1987. He is a registered Professional Engineer in Wisconsin.

Mike Szczepanski, Director of Sales – Commercial Products

Mike has over 29 years experience in the fan and HVAC industries, starting as an Application Engineer for Barry Blower. Over the years, Mike has held a number of positions of responsibility in sales and marketing with companies such as Snyder-General, McQuay, Penn Ventilation, Hart and Cooley, and Lau Industries.

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During this time, Mike also worked very closely with a number of custom HVAC manufactures and his own engineering departments to develop a high efficient plenum fan and worked with the Mix Flow design team. After 4 years in the Navy, Mike received a degree in Marketing and Psychology from Century College, MN.

Zach Nelson, Sr. Sales Engineer – Commercial Products

Zach has been in the industry with Twin City Fan for 4 years. He started in the industry just after graduating from the University of North Dakota with a bachelor's degree in Mechanical Engineering. In this position he provides reps with technical support, helps them with fan applications and ensures the fabrication of the fan has met the customer's request.

Student Activities

John Schwartz

Welcome students. We plan on kicking off the first evening meeting with our fall Student Night. We are again planning on giving away a \$150 Past President's Scholarship to one lucky student in attendance at the meeting.

I did want to note to the students that the ASHRAE webpage is a wonderful source of information on career resources, scholarships and sites for national internships/starting employment opportunities (<http://www.ashrae.org/students/>).

Chapter members, I encourage you to find a table of students and invite yourself to sit with the different groups. There should be a nice turn out from the Student chapters.

I am looking forward to another successful year for Student Activities.