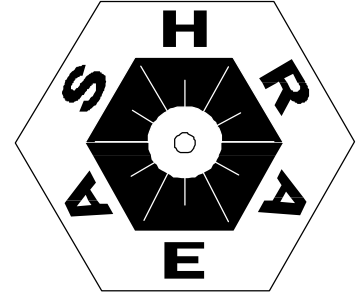
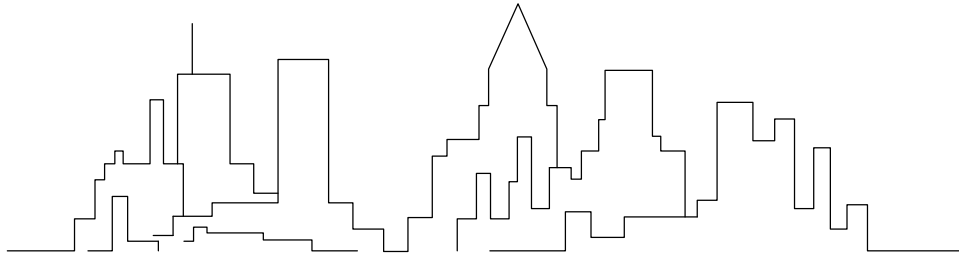


The EXCHANGER



Minnesota Chapter

www.mnashrae.org

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

c/o Karges-Faulconbridge Inc., 670 County Road B, Saint Paul, MN 55113

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Presidents Corner

Submitted by Paul Quirin

As another year of Minnesota Chapter programs winds down, I would like to take an opportunity to thank all of you as members for the opportunity to serve as the Chapter's 89th President since the founding of ASHVE in 1918. [For those of you doing the math, there were two Presidents the year that ASHVE and ASRE merged in 1959-1960.] I am proud to have served and offered my time to the Chapter. I sincerely hope that our Board of Governors and Officers this year have continued to improve the services that the Minnesota Chapter offers to our membership.

Our final Chapter meetings of the year are fast approaching: The May Chapter meeting will be held on May 9th at the Double Tree Park Place hotel where our new 2006-2007 Chapter officers will be sworn in and we will honor all of the Past Presidents that have served the Minnesota Chapter. The always heavily anticipated Golf Outing will be held on June 7th at Majestic Oaks Golf Course. See the enclosed inserts for additional information.

Although we will not be holding a formal program for the May meeting due to the volume of Chapter business that is performed, I will be taking some time to walk through each of the websites that provide information and operations for our Chapter, Region and Society. Please come prepared to discuss any issues, questions or suggestions you may have regarding the electronic interface that we have with Society.

As this year comes to a close, I would like to offer a little perspective on our Chapter's position in the Society in terms of size and some of the routine membership changes that our Chapter goes through each year:

We are the 6th largest Chapter in the Society based on our area-assigned membership of 858 members, 7th largest when including our 79 student members. The only larger Chapters are the Boston Chapter in Region I, the National Capital Chapter and Philadelphia Chapters in Region III, Atlanta Chapter in Region IV, the Illinois Chapter in our own Region VI, and the Hong Kong Chapter in Region XIII based on the strength of 373 student members.

Since the beginning of the Society year on July 1, 2005 we have had 64 new members, 34 new students, 12 member reinstatements, 17 transfers in, 35 member cancellations, 19 student cancellations, and 13 transfers out of the Chapter for a net add of 60 members for the year (based on data through March 31, 2006).

Also, as an example of how frequently our home and career locations shift and how imperative it is to actively maintain your account and contact

information: we have recorded 335 address changes for the 858 Chapter assigned members. No wonder it can be difficult and time-consuming maintaining the Society database and keeping in contact with everyone!

Our Chapter size affords us the opportunity to have a significant and positive influence on Society operations due to our member involvement. Please take the time to offer your own contributions to ASHRAE at the Society, Regional and Chapter levels. Keep in mind that all of these efforts are individuals volunteering their time and giving back to the industry that they work in. It is truly amazing what each person can contribute based on their volunteer time and effort. This also applies to every other area of our profession, community and Society as a whole. Please take the time to pay attention to the industry and the larger world around us. A little bit of awareness and involvement will go a long way!

Finally, our thanks once again to the corporate sponsors that have generously contributed to the Student Sponsor fund this year to cover all of the student costs for attending Chapter meetings this year. The companies are listed at the back of the Exchanger.

I hope to see you at the May meeting and annual golf outing!

Chapter Information

Chapter Business Meeting Minutes – April 11, 2006
Submitted by Brian Shablow – Secretary

Call to Order – Presiding Officer Curt Ratajczak – 12 PM (Noon)

Guest(s) Attending:

1. Perry R Nistler – Duffy Engineering & Associates, Inc. – St. Cloud, MN.
2. Ryan K. Thorson – LHB Engineers & Architects – Duluth, MN.

Presidents Comments:

1. Notice about the Chapter is co-sponsoring a satellite broadcast with MIAA April 19 – Sustainability and the Building Environment. Brochures available at registration table – NOTICE: The location is “To Be Determined” check the MN ASHRAE web site for more information. <http://mnashrae.org>.
2. Notice that the CRC – Chapter Regional Conference is in session April 27-29. Friday includes numerous technical sessions for PDH credits. If interested the Chapter will give \$50.00 for any member wanting to attend.

You can find out more information on the Region 6 web site.
<http://www.ashrae6.org>.

3. Reminder that seminar and meeting registration can be completed on-line from the MN Chapter web page.

Committee Reports:

Nominations Committee:

1. Ballot results announced, a total of 13 ballots submitted:
 - a. President – Curt Ratajczak
 - b. President Elect – Brian Shablow
 - c. Secretary – Robert Linder
 - d. Treasurer – Jim Douglas
 - e. BOG – Scott Rollings, Todd Courneya, Tim Manz & Paul Quirin.

Golf Committee (Don Smith):

1. Notice of upcoming Golf Event. Need sponsorship and registration checks by June 2, 2006. Mail sponsorship form with check to Comfort Systems, Attn. Don Smith. Mail registration form and check to be mailed to Mulcahy, Attn. Jim Burns NOT ASHRAE.

Table Top Displays:

1. **CALMAC Manufacturing Corporation – Earl C. Rudolph**
2. **CenterPoint Energy – David C. Milligan**
3. **TEMPAIR – David Rupp**

Technical Presentation:

The presentation was in part associated with Education Seminar held in the morning. The MASDeC Committee organized the seminar and included topics about sustainable HVAC systems, LEED and it's challenge of the mindset for energy efficient building HVAC systems, ASHRAE 90.1-2004 and an the advantages of an Integrated Design Team.

Hee-Jin Park of Flonomix, Inc. presented on Computational Fluid Dynamics (CFD), Modeling Practice in HVAC/IAQ Engineering. Hee-Jin defined CFD as a solving process of fluid flow/heat transfer problems that are governed by the fundamental laws of physics. Velocity, temperature and pollutant concentration fields can be modeled within a whole space to predict performances before modifying or installing HVAC systems. CFD provides detailed information about HVAC design parameters which can be used for design comparison, optimization, validation, modification/improvement – saving cost and time. CFD is also used for fire management and environmental studies around buildings. Some case studies were presented to indicate how CFD was helpful in determining alternative HVAC and IAQ systems.

Adjournment: 1:30 PM.

Society Information

ASHRAE Honors University of Minnesota Professor as New Fellow

Chicago – The American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE) elevated David T. Grimsrud, Ph.D., to the grade of fellow at the Society's 2006 Winter meeting held January 21-25. This membership grade is earned through achievement as a researcher, designer, educator or engineering executive and only 500 of ASHRAE's 55,000 members have attained it.

Grimsrud is principal of Grimsrud and Associates in Minneapolis, MN and professor emeritus at the department of Bio-Based Products at the University of Minnesota.

He has contributed to the industry through his work in efficient ventilation, infiltration and indoor air quality. In the 1980's, he published landmark studies on radon gas, indoor air quality and looked at energy efficient methods for improving air quality. He also developed the Lawrence Berkeley National Laboratory infiltration model for predicting infiltration in single-zone buildings based on leakage and outdoor weather. Mr. Grimsrud oversaw the University of Minnesota's building energy efficiency program which resulted in \$2 million annual savings.

Currently, he is chair of ASHRAE's 62.2 committee, the only nationally recognized indoor air quality standard developed solely for residences.

Upcoming Events

Minnesota Chapter Meeting & Event Calendar

- ~~ü **October 11, 2005 Dinner**~~
Meeting Topic: Tour — Guthrie on the River
- ~~ü **November 8, 2005 Seminar/Lunch**~~
Health & Life Safety Seminar
- ~~ü **December 13, 2005 (Tuesday) Lunch**~~
Meeting Topic: TEGA
- ~~ü **January 10, 2006 (Tuesday) Lunch**~~
Meeting Topic: AHRAE Standards Update
Rick Hermans
- ~~ü **February 14, 2006 (Tuesday)**~~
~~**Seminar/Lunch**~~
Refrigeration Seminar
- ~~ü **March 14, 2006 (Tuesday) Dinner**~~
Meeting Topic: Research Promotion and
Support Appreciation
- ~~ü **April 11, 2006 (Wed.) Seminar/Lunch**~~
Meeting Topic: Education Seminar
- ~~ü **May 9, 2006 (Tuesday)**~~
~~**Seminar/Lunch**~~
Meeting Sub-topic: Installation of
Officers/Past Presidents Day/History -
Utility Night
- ~~ü **June, 2006**~~
Golf Outing

Northern Lights Chapter

- ~~**April 12, 2006 Lunch/Tour**~~
City: Grand Forks — Cirrus or
LM Glassfiber (Wind Turbines)
(TBD)
- ~~**June 22, 2006 Golf Tournament**~~
City: TBD

Rochester Section Schedule

- ~~ü **September 20, 2005 Lunch**~~
MN Board of Engineering
- ~~ü **October 18, 2005**~~
Chilled Water Systems
- ~~ü **March 21, 2006 Seminar/Lunch**~~
Energy Solutions
- ~~ü **April 18, 2006 Lunch/Seminar**~~
Tour—TBD
- ~~ü **June 2006**~~
Golf Outing

ASPE Meeting Schedule

*Submitted by Renae Torborg, Newsletter
Editor*

- ~~**October 19, 2005**~~
Plumbing in Zero-G
- ~~**November 16, 2005**~~
Plumbing Vent Basics
- ~~**December 21, 2005**~~
Valve Design and Application
- ~~**January 13, 2006**~~
Holiday Party—Rolling Green—GG
- ~~**January 18, 2005**~~
“Sewer Cam Process”
- ~~**February 15, 2006**~~
Fossil Fuel vs. Electric
- ~~**March 15, 2006**~~
ASME B-31-9 Update
- ~~**April 1, 2006**~~
Hunting Outing to Traxler's
- ~~**April 19, 2006**~~
Siphonic Roof Drainage
- ~~**April 27, 2006**~~
“Around the Mechanical Room” Seminar
- ~~**May 17, 2006**~~
Oil Water Separators

Professional Directory



Space for Rent!

2005-06 Student Dinners Graciously Sponsored by:

Midwest Mechanical Solutions
R.M. Cotton Company
Minnesota Air
Campbell Seavey
Schwab Vollhaber Lubratt
TMS Johnson
General Mills

**Publication Deadline for the
May Exchanger; April 7th, 2006**

**All submissions must be in electronic format and should be emailed to the
Editor: Daniel Chudecke**

ñ ñ Society and/or Chapter dues Paid?

First **Yes/No** on Mailing Label = Society Dues

Second **Yes/No** on Mailing Label = Chapter Dues

**INSIDE: Insert: May Meeting Notice
Golf Outing Notice**

