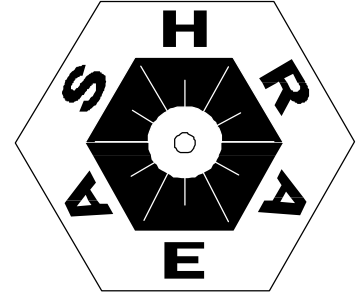
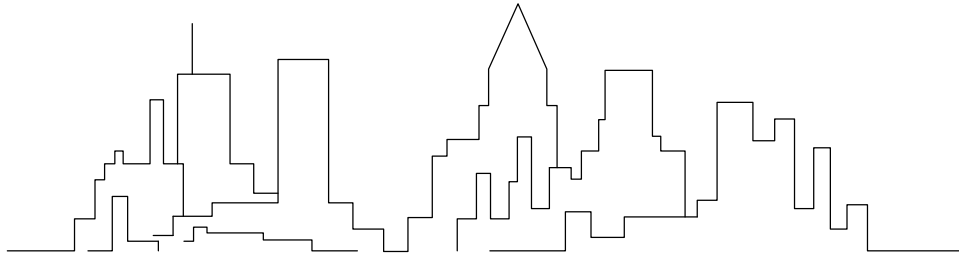


The EXCHANGER



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

I would like to thank Brad Campbell and Gary Johnson from Mammoth, Inc. for their continued support of ASHRAE Research with their portion of their parent company CES Corporation's Golden Circle, \$10,000 donation. Mammoth presented an overview of their custom manufactured products at our March Chapter meeting to an audience of approximately thirty members and students.

The Chapter presented Student scholarship awards to the past two years' award winners from the University of Minnesota. The 2005-2006 scholarship award winners are Josh Rocklage and Blaine Hust. The 2004-2005 scholarship award winner, Nicholas Stanley was also presented an award certificate. This is the first year that two \$1,000 individual scholarships have been awarded to the University of Minnesota. Additional student scholarships are given each year through our Chapter (including the Rochester and Northern Lights Sections) to students at Dunwoody Institute, Rochester Community Technical College, Minnesota State Mankato, North Dakota State University and University of North Dakota.

Another note regarding our student activities, starting with the 2006-2007 Society year, presuming approval being granted at the Quebec City meeting in June, the Minnesota Chapter will have a new Student branch at Minnesota State Mankato. Congratulations to our Student Activities co-chairs George Rothenberger and Steve Schreurs as well as Faculty Advisor, Patrick Tebbe and his group of students with taking the initiative and setting up the branch!

Upcoming education opportunities include the April Education seminar to be held at the Four Points Sheraton on April 11, a Rochester Section meeting April 18 and a Northern Lights section tour on April 12 in Grand Forks. See the attached meeting inserts and schedules at the back of the Exchanger for more details. Finally, keep April 19 available in your calendar for the Society satellite broadcast presentation on Sustainability and the Building Environment.

At the end of this month, from April 27-29, the annual Chapters' Regional Conference (CRC) for Region VI will be held in St. Louis. The CRC is a gathering of all twelve of the Chapters that comprise our Region, with each Chapter taking their turn hosting the CRC in an eleven-year cycle – the Illinois Chapter is allowed to skip due to their involvement in regular Society meetings. The focus of the CRC is performing the business of the Region, including nominating Regional and Society Officers, coordinating committee activities, training committee chairs, nominating honors and awards and offering motions for consideration by Society. This is our

opportunity to provide feedback to the Society regarding the way that the Society is operated.

There will also be technical sessions on Friday based on the topic "Temperature Control Systems: Why Don't They Work". A variety of notable speakers will present at the seminar on the following topics:

William J. Coad, Coad Engineering on "What Went Wrong?"

Eric G. Utterson, McClure Engineering Assoc. on "Solutions: The Role of the Consulting Engineer"

Harry N. Demetrulias, Johnson Controls on "Solutions: The Role of the Temperature Controls Contractor"

James T. Stueber, Washington University School of Medicine on "Solutions: From and Owner's Perspective"

J. Jay Santos, Facility Dynamics on "Controls Commissioning: The Role of the Clean-Up Hitter"

Last year, the Minnesota Chapter won the "Hornblower" award at the CRC hosted by the Mississippi Valley Chapter in the Quad Cities, that essentially represents (via an obscure formula) the Chapter that has sent the most members the longest total distance.

Please take a moment to vote and mail-in the enclosed ballot for our 2006-2007 Chapter officer and board of governors' ballot. Voting continues up to the business meeting at the April Education seminar, with the results announced at the end of the meeting.

Chapter Information

Chapter Business Meeting Minutes – March 14 2006 **Submitted by Brian Shablou – Secretary**

Call to Order – President Paul Quirin – 6:00 PM

Guest(s) Attending:

1. Brent Campbell – Mammoth, Inc
2. Gary Johnson – Mammoth, Inc.

Presidents Comments:

1. Notice that MN Chapter is looking for Chapter Service Award candidates. Past presidents and other active chapter members should contact Paul Quirin or get the application form on www.mnashrae.org for more information.
2. Notice about the Education Seminar April 11 – Building Energy Performance Beyond Code.
3. Notice about the Chapter co-sponsoring a satellite broadcast in April 19 – Sustainability and the Building Environment.
4. 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>.
5. Notice about a training seminar hosted by the Twin Cities Chapter of RSES, in Bloomington, Minnesota, on March 31 and April 1, 2006, for the 51st Annual Upper Midwest Regional Association Conference. The two-day event features an educational program on Dehumidification, Honeywell Burner Boiler Controls, Tecumseh, Ritchie Engineering "Recovery and Vacuum Techniques", Refrigeration Oil Management, and training sessions at the Thermo King Training Center.
6. Notice about a new Student ASHRAE Chapter to officially be inducted at Minnesota State University Mankato. Congratulations!
7. Notice and handout of the "Energy Tips – for the Heating Season" brochure written by ASHRAE.
8. SPECIAL PRESENTATION: Steve Schreurs and Tom Kuehn presented Certificates to the University of Minnesota Scholarship recipients:
 - a. 2004/05 – Nick Stanley
 - b. 2005/06 – Joshua Rocklage & Blaine Hust.

Committee Reports:

Nominations Committee:

1. Nominations are closed. Ballots are inserted in the March Exchanger. Please complete and send in your ballots. Results will be announced at the April meeting.

TEGA Committee:

1. Notice about the committee receiving 3 Chapter entries for the CTTC Technology Award Program. The entries will be awarded based on "advanced and cutting edge design" and that each entry could be submitted for awards at the Regional and Society level.

Research Promotion Committee:

1. C.E.S./ Mammoth was recognized and thanked for their Golden Star contribution to Research Promotion.

Table Top Displays: None**Technical Session:**

The program was presented by C.E.S. / Mammoth as part of our Chapters Appreciation Dinner for Mammoth:

- 65 years in the Custom HVAC comfort conditioning.
- With comfort conditioning ½ the world would be inhabitable.
- “Labor and material in boxes at the factory” for reduced site labor with Mammoth’s factory-packaged mechanical equipment rooms.
- The factory has made major strides in organizing the manufacturing process of its products.
- Evaporative condensing is a major proponent of its equipment.
- Custom manufacturing of multi-zone units for retrofit and new construction.
- Presented examples of the mechanical and architectural capabilities of their factory-packaged mechanical equipment rooms.
- Notice about water source heat pumps.

Adjournment: 7:30 PM.

Region IV Information

ASHRAE Region VI announces the launch of the Student Zone (<http://studentzone.ashrae6.org>). The Student Zone has been created to help students in Region VI Chapters find jobs, scholarships, and learn about the HVAC&R industry. The Student Zone currently offers a message board and a blog for posting stories, comments, questions, etc. One of the more exciting features is the addition of the e.Mentoring system (<http://studentzone.ashrae6.org/ementor.php>). This is a free program open to all student members in the Region. Students register by entering basic contact information and they will be assigned to a mentor somewhere in the Region.

This is a great opportunity for students interested in learning about HVAC&R industry and making the transition from school to career. We have several mentors signed up and waiting, so register today, it only takes a minute and it's free! In the coming weeks we will be posting a free resume board for students to post their resume. Several employers from all over the country have asked about the resume board and are anxiously awaiting its launch.

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: April Seminar Notice
May Meeting Notice
Golf Outing Notice**