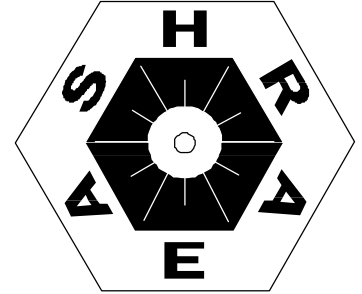
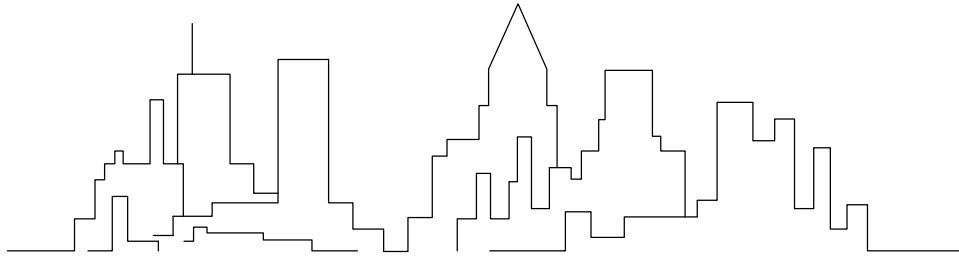


The EXCHANGER



Minnesota Chapter

www.mnashrae.org

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

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

VOLUME 17 NO. 3

PUBLISHED 8 TIMES ANNUALLY

OFFICERS		PHONE	FAX	E-MAIL
PRESIDENT:	Curt Ratajczak	763-544-5442	763-544-5569	curtr@tmsj.com
PRESIDENT-ELECT:	Brian Shablow	651-602-0456	651-602-0455	bshablow@mech-sys.com
SECRETARY:	Robert Linder	651-254-6881	651-771-0878	rjlinder@kfi-eng.com
TREASURER:	Jim Douglas	952-938-1588	952-938-1480	jimd@twgi.com
PAST PRESIDENT:	Paul Quirin	763-585-5161	763-566-2208	paul.e.quirin@jci.com
BOARD OF GOVERNORS				
	Scott Rollings	763-786-3700	763-398-3915	scrollings@eerhvac.com
	Todd Courneya	952-525-2073	952-738-5230	todd.courneya@mmstwincities.com
	Tim Manz	612-624-9082	612-625-6667	t.manz@umbuildingcode.com
COMMITTEES	CHAIRS			
COMMUNICATIONS	Craig Johnson	651-209-2854	651-778-3911	craig.johnson@benham.com
CRC ACTION	Curt Ratajczak	763-544-5442	763-544-5569	curtr@tmsj.com
CTTC	Tim Manz	612-624-9082	612-625-6667	t.manz@umbuildingcode.com
EDUCATION SEMINAR (co-chairs)	Jim Douglas	952-938-1588	952-938-1480	jimd@twgi.com
EXCHANGER	Dan Chudecke	651-686-8580	651-686-8588	dchudecke@mulcahyco.com
GOLF	Jim Burns	651-686-8580	651-686-8588	jburns@mulcahyco.com
HISTORIAN (co-chairs)	Gary Grenzer	763-545-3731	763-525-3289	ggrenzer@atsr.com
	Mason Myers	952-545-8696		salmyers@ix.netcom.com
HOUSE (co-chairs)	Todd Courneya	952-525-2073	952-738-5230	todd.courneya@mmstwincities.com
	Mark Muhlstein	952-525-2033	952-738-5228	mark.muhlstein@mmstwincities.com
LIFE SAFETY	Mark McCollough	952-525-2060	952-738-5237	mark.mccollough@mmstwincities.com
MEMBERSHIP	Glenda Cooper	763-753-9814		gmsterilaire@aol.com
NORTHERN LIGHTS SECTION	James Fristad	701-772-6631	701-772-7932	jimf@lunseth.com
P.A.C.	Paul Quirin	763-585-5161	763-566-2208	paul.e.quirin@jci.com
PRODUCT DIRECTORY	Kelly Hauenstein	651-481-8000	651-481-8621	kellyh@svl.com
PROGRAM	Scott Rollings	763-786-3700	763-398-3915	scrollings@eerhvac.com
PUBLICITY	Gary Fischbach	763-544-5442	763-544-5569	garyf@tmsj.com
RECEPTION	Paul Quirin	763-585-5161	763-566-2208	paul.e.quirin@jci.com
REFRIGERATION (co-chairs)	Vinod Gupta	651-778-4149	651-778-6371	vp Gupta@mmm.com
	Carol Marriott	763-553-5355	763-553-5445	carol.marriott@mcquay.com
RESEARCH PROMOTION	Bruce Lindsay	952-707-5105	952-707-5046	blindsay@temp-air.com
ROCHESTER SECTION	Mike Drahos	507-288-8088		mdrahos@hga.com
ROSTER	Gary Grenzer	612-525-3231	612-525-3289	ggrenzer@atsr.com
SCHOLARSHIP	Paul Quirin	763-585-5161	763-566-2208	paul.e.quirin@jci.com
STUDENT ACTIVITIES (co-chairs)	George Rothenberger	612.343.5965	612.343.5982	gerothenberger@edilimited.com
	Steve Schreurs	612.343.5965	612.343.5982	sschreurs@edilimited.com
SUSTAINABLE DESIGN (co-chairs)	Todd Courneya	952-525-2073	952-738-5230	todd.courneya@mmstwincities.com
	Betti Iwanski	651-488-4443		biwanski@comcast.net
WEBMASTER	Allen Tillmann	612-761-5422	612-761-3321	allen.tillmann@target.com
REGIONAL/SOCIETY OFFICERS				
Regional Treasurer	Richard Harju	763-784-9522		treasurer@ashrae6.org
RVC – Research	John Rieke	651-771-2222	651-778-3911	rp@ashrae6.org
Regional Historian	Bill Murray	763-784-7490	763-786-8571	historian@ashrae6.org
Director and Regional Chair	Robert Linder	651-254-6881	651-771-0878	arc@ashrae6.org
Director-at-Large	Richard Hermans	612-335-5840	612-335-5888	rhermans@mncee.org
LIAISONS				
University of Minnesota Faculty Advisor	Tom Kuehn	612-625-4520		kuehn001@tc.umn.edu
Dunwoody Faculty Advisor	Chuck Taft	612-374-5267		cgtaft@peoplepc.com
Minnesota State Faculty Advisor	Patrick Tebbe	507-389-6383		

President's Corner Submitted by Curt Ratajczak

The December meeting was held at the Doubletree Park Place Hotel and covered an update on various committees at the Society level. Barry Bridges, a former Minnesota Chapter President, discussed activities from the following committees: TC 7.7 – Test and Balance, TC 7.9 – Building Commissioning, TC 1.4 – Control Theory and Application, TC 7.5 – Smart Building Systems and SSPC 135 - BACnet. It was interesting hearing about the variety of Society Technical Committees. It's in these individual technical committees where all the groundwork is done for ASHRAE.

This month's Chapter meeting will be a lunch meeting on Tuesday, January 9TH, also at the Doubletree. We will have Andy Thielen, Mechanical Engineer from the State of Minnesota's Construction Code and Licensing Division, discussing "What's Up with the New Energy Code?" Come and listen to where the State of Minnesota is at with the adoption of this New Energy Code. See the January flyer for more information.

Please mark your calendars for the upcoming Refrigeration Seminar. This seminar will be February 13th, 2007, at the Doubletree Park Place. Our lunch presentation will be by our very special guest and distinguished lecturer, Kent Peterson. Kent Peterson is currently the President-Elect of ASHRAE on the Society Level. Kent will be discussing Optimizing Central Chiller Water Systems. Also there will be three other technical sessions. See the Refrigeration Seminar flyer for more information.

Every year the Minnesota Chapter of ASHRAE gives two (2) – \$1000.00 scholarships to the University of Minnesota's Mechanical Engineering Department. I would like to recognize this year's recipients: Craig A Deutsch and Benjamin Chojnacki. I would like to congratulate both of these individuals and am looking forward to meeting them and introducing them at one of our future monthly meetings.

I would like to mention a little about the ASHRAE winter meeting in Dallas, Texas on January 27th-31st, 2007. If you are able to get down to Dallas for this event, please check out one of the many technical sessions offered and check out the world's largest HVAC&R event at the AHR EXPO. For more information on all events and sessions please check their website at www.ashrae.org.

As you can see we are kicking off the 2007-year with a lot of exciting events. Please take the time to come and join us at one of the meetings or seminars. If you are interested in becoming involved, please feel free to call myself or any other BOG member listed on the front of the Exchanger.

I would like to wish everybody a Happy New Year and hopefully we will see you at one of our meetings.

Chapter Information

Membership Committee Update Submitted by Glenda Cooper – Membership Chair

I would like to give a special Thank You to Chuck Taft for investing in the future of his students and bringing them to our meetings and seminars. Our future designs and the tradition of ASHRAE will be carried on by these young students and professionals.

As we all strive to carry on the tradition of ASHRAE, I am looking for a few good men and women to be membership recruiters.

I would like once more to kick off the year with a friendly membership contest. This is open to members and associate members. Any member signing up the highest number of new members will win \$100.00 cash prize. Gary Fischbach was the winner of our last membership contest, much appreciation Gary for a job well done. Deadline for new member applications will be April 30th, 2007. The winner will be announced at the May meeting. Please make sure that I get a copy of the application that is sent into society.

Also, as mentioned at the meeting on November 8th, I am looking for a co-chair to assist me with membership opportunities. Please contact me at 763-753-9814 if you are interested in being more involved in growing our presence throughout the community.

Things are changing at WWW.ASHRAE.ORG?

Effective November 15, ASHRAE will launch the first phase of its new membership database. As part of this change, your login for the Web-site will become your e-mail address and a password of your choice instead of your membership number and personal identification number (PIN). Key features of the new membership database include the ability for you to update your bio and manage your membership online. When logging on to ASHRAE.org on or after November 15 please use your e-mail address and password instead of your membership number and PIN. When you log into the ASHRAE website,

you will be prompted to enter your email address, then password. At this point, your password will be your ASHRAE PIN, after entering your PIN, the system should prompt you to enter a password of your choice. Your password should contain 6-14 characters, a capital letter and a number. You may wish to pass this information on to your ASHRAE colleagues and members in your chapters. If you have any questions, please feel free to send an email to loginquestions@ashrae.org or contact ASHRAE Customer Service at 1-800-5-ASHRAE. Thank you for your continued support of ASHRAE activities. If you experience problems, please contact us at

ICC Upper Great Plains Region III Educational Institute
(February 5-9, 2007)

The Minnesota Chapter of ASHRAE is a sponsor of an excellent educational opportunity in February 2007 for all ASHRAE members. The Upper Great Plains Region of the International Code Council (ICC) includes code officials from Minnesota, North Dakota, South Dakota, Iowa, and Wisconsin. This year they have decided to broaden offerings to attract others involved in construction of the built environment such as designers and contractors, so ASHRAE will be sponsoring several seminars to assist in the effort. Specifically, programs on Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*, and Standard 90.1-2004, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, will be offered on Thursday, February 8, 2007, in Session 742. These programs will be presented by Dennis Stanke of the Trane Company and Rick Hermans of the Center for Energy and the Environment. Also of interest is a program on *Plumbing Related Design Topics*, Session 741, presented by Julius Ballanco of JB Engineering and Code Consulting, and a program on *Fire/Smoke Damper Installation Requirements*, Session 743, presented by Sam Dardano of the City of Boulder, CO.

For more information, visit the following website:

www.iccsafe.org/training/region3institute/index.html

Technology Award Applications
Submitted by Tim Manz, CTTC Chair

The Chapter Technology Transfer Committee (CTTC) of the Minnesota Chapter of ASHRAE has announced that Technology Award Applications are due on **Monday, February 12, 2007**. The Technology Award recognizes ASHRAE members and projects that utilize innovative HVAC/R systems in both new buildings and existing buildings. Each year the Society presents awards in seven categories: Commercial Buildings, Institutional Buildings, Health

Care Facilities, Industrial Facilities or Processes, Public Assembly Facilities, Residential Buildings, and Alternative or Renewable Energy Use. Following is a link to the ASHRAE website that contains specific information on the application process (just scroll down to the Technology Awards Program):

www.ashrae.org/cttc

Don't be overwhelmed by the application process, even if you have never been involved before! The application is basically a 2 or 3 page description of the project (short form), and if the project wins an award at regional level, a more complete submittal (long form) is required for the project to be forwarded to Society. If you have any questions, please don't hesitate to call me. The application can be submitted by email or fax, or I will even pick it up at your office (in the metro area).

One more thing--the winner at the chapter level receives \$100 and will have his/her application submitted to the regional level for additional award considerations!

Research Committee Call to Action
Submitted by Bruce Lindsay- Research Promotion Chair

ASHRAE research is the backbone of our industry. If you refer to the ASHRAE Handbook, you are using the results of numerous research projects. Weather data, refrigerant properties, and load calculation methodologies continue to be updated and improved. We as an industry need to invest in continued research that affects our indoor and outdoor environments. Many manufacturers support this effort, notably McQuay and Mammoth locally. However, the majority of ASHRAE research funding is contributed by individual members. These personal donations are typically just \$100 to \$150. What many members do not realize, these contributions are matched dollar for dollar from the annual AHR Expo. As Chair of Research Promotion, my goal is to reach out to all chapter members to ask them to give back to their profession. Our chapter goal for 2006-2007 is \$33,000. Please help me exceed our goal and consider contributing at least \$100 to \$150 this year.

Student Committee Update

To date the following companies have graciously offered up to \$200 each to cover the costs for student's meals at our chapter meetings and hopefully send some deserving students to the AHR meeting in Dallas, TX.

Minnesota Air, Inc.
General Mills
RM Cotton Company
Schwab Vollhaber LuBratt, Inc.
TMS Johnson, Inc.

Upcoming Events

Minnesota Chapter Meeting & Event Calendar

- ~~ü October 10, 2006 Dinner
Meeting Topic: Tour—Minneapolis Public Library—~~
- ~~ü November 8, 2006 Seminar/Lunch
Seminar~~
- ~~ü December 12, 2006 (Tuesday) Lunch
Meeting Topic: TEGA~~
- ü January 9, 2007 (Tuesday) Lunch
Meeting Topic: AHRAE Standards Update
Rick Hermans
- ü February 13, 2007 (Tuesday)
Seminar/Lunch
Refrigeration Seminar
- ü March 13, 2007 (Tuesday) Dinner
Meeting Topic: Research Promotion and
Support Appreciation
- ü April 10, 2007 (Wed.) Seminar/Lunch
Meeting Topic: Education Seminar
- ü May 8, 2007 (Tuesday)
Seminar/Lunch
Meeting Sub-topic: Installation of
Officers/Past Presidents Day/History -
Utility Night
- ü June, 2007
Golf Outing

Northern Lights Chapter

February 14, 2007

Meeting: Fargo - Refrigeration Topics
Presentation and 1/2 Day Seminar

April 11, 2007

Meeting: Fargo - HVAC Controls & Integration
Talk

June 13, 2007

Social: Annual Golf Outing @ Hawley, MN CC

Rochester Section Schedule

December 19, 2006 - Mr. Park (3-D Airflow
Simulation)

January 16, 2007 - Ryan Company
(Condensing and Non-Condensing Boiler
Application)

February 20, 2007 - Rick Hermans (ASHRAE
Sustainability Road Map)

March 20, 2007 - Ruskin (Sound Control
Products and Application)

April 17, 2007 - Mankato State Trip

April 26, 2007 - ASHRAE/SMMMPA (Rochester
Spring Seminar)

May 15, 2007 - Uponor (Chilled Floor
Systems)

August 2, 2007 - 12th Annual ASHRAE Golf
Outing

Professional Directory

Space for Rent!

**2007-08 Student Dinners
Trip to the AHR Meeting in
Dallas, TX Graciously
Sponsored by:
Minnesota Air Inc.
General Mills
RM Cotton Co.
Schwab, Vollhaber, LuBratt
TMS Johnson Inc.
AND YOU!**



**Providing
High Efficiency
HVAC Systems
MN, ND, SD & WI**

Energy Efficient Resources
PO Box 49813
3140 104th Lane
Blaine, MN 55449

Phone: 763-786-3700
Fax: 763-398-3915
Web-Site: www.eerhvac.com

ClimateMaster, ClimateCraft, Chandler, DesChamps Technologies, Hays Fluid Control
E-Tech, VTAC, HeatCraft, USA Coil and Air, M&I, RenewAire and Williams Comfort

**Publication Deadline for the
Next Exchanger; January 12th, 2007**
All submissions must be in electronic format and should be emailed to the
Editor: Daniel Chudecke – Dchudecke@mulcahyco.com

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: January Meeting Notice
February Seminar Notice**