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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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	rilinder@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	srollings@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			<u> </u>
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
DUCATION 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
OLF	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	. 00 020 0200	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
IFE SAFETY	Mark McCollough	952-525-2060	952-738-5237	mark.mccollough@mmstwincities.com
MEMBERSHIP	Glenda Cooper	763-753-9814	302 700 0207	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		651-481-8000	651-481-8621	
	Kelly Hauenstein			kellyh@svl.com
PROGRAM	Scott Rollings	763-786-3700	763-398-3915	srollings@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	vpgupta@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 lwanski	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				
Iniversity of Minnesota Faculty Advisor	Tom Kuehn	612-625-4520		kuehn001@tc.umn.edu
Dunwoody Faculty Advisor	Chuck Taft	612-374-5267		cgtaft@peoplepc.com
linnesota State Faculty Advisor	Patrick Tebbe	507-389-6383		· · · · -

Presidents Corner

President's Corner Submitted by Curt Ratajczak

Our February Refrigeration Seminar was held at the Double Tree Park Place Hotel and it lived up to the expectations we have been promoting the last couple of months. It consisted of three technical sessions covering a broad range of topics including: Trouble Shooting with Basic Hydronic Concepts, Refrigeration Piping Design, and Non Chemical Treatment of Cooling Towers. Also, Kent Peterson, who is currently the President-Elect of ASHRAE on the Society Level, presented Optimizing Central Chiller Water Systems. We had our largest turnout of the 2006-2007 ASHRAE seasons with more than 110 people. I would like to thank the Refrigeration Committee, including Carol Marriott, Bruce Kamperschroer, and Vin Gupta for organizing this great seminar.



Pictured above: Kent Peterson, Bruce Kamperschoer, Vin Gupta, Carol Marriot and Curt Ratajczak

As I noted above, we were honored by having Kent Peterson, Society's President-Elect come into town to visit with our Chapter. Kent started the morning out by having a breakfast meeting with principles and distinguished members of some of the MN Chapter's Engineering Firms, Manufacturer Representatives, and Manufacturers. He discussed the advantages of promoting ASHRAE involvement with employees and

coworkers. He later did a presentation on Optimizing Central Chillers Water Systems for the Refrigeration lunch meeting. It was a highlight of the MN ASHRAE 2006-2007 year.

The March meeting will recognize the MN Chapter's student activities. Professors and students from the University of Minnesota branch and Mankato State branch will present on past tours and activities. In addition, Tina Bruekner, Regional Vice Chair of Student Activities for ASHRAE Region VI, will give an update on student activities from a regional perspective.

The April Education Seminar will be held on April 10th and will focus on Controls. This will be the last of our series of 3 half-day seminars we have throughout the year. See the enclosed flyer for more detailed information. Also in April, we will co-sponsor a satellite broadcast focusing on Indoor Environment Design.

Finally, I would like to discuss the beginning of the transition into the 2007-2008 ASHRAE year. You will soon receive the 2007-2008 Officer and Board of Governor's Ballot. Please take a moment to vote and send in the ballot.

When you are looking over the list of Board Members and Officers, please consider volunteering you time to serve as a member of a committee, as a co-chair, or a chair of one of the active committees listed on the front of each Exchanger. Each year, a Chapter member is nominated to the Board based on the participation on committees and willingness to contribute to the Chapter. The Board members then typically follow a path through the Board and Officer positions, eventually becoming President of the Chapter. Believe me, being involved at this level is very rewarding, allowing for increased professional and personal development. If you are interested please contact any of the Board members for positions available for the 2007-2008 year.

Hopefully we will see you at one of our upcoming 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.

MIAA and ASHRAE Sponsor Satellite Broadcast

Minnesota Indoor Air Association and Minnesota Chapter of ASHRAE are teaming up again this year to sponsor the April Satellite Broadcast "Indoor Environmental Design: Practical Solutions to Everyday Problems." The Chapter Technology Transfer Committee (CTTC) as co-sponsor is providing three Chapter members for the panel discussion to follow the broadcast: Rick Hermans, Todd Courneya, and Dan Katzenberger, who are also members of the Sustainable Design Committee (MASDeC).

Program topics to include "Ventilation System Design: Avoiding Three Common Mistakes," "Noise, IAQ and Thermal Comfort—Can You Have It All?" "Ventilation Air: First, Do No Harm," and "Advances in Affordable Filtration for IAQ."

The broadcast is Wednesday, April 18th, noon – 4 pm at the Orville Freeman Building, 625 North Robert St, St. Paul.. Register by April 13th by mail: MIAA, 7964 Brooklyn Boulevard, BMP#311, Brooklyn Park, MN 55445. Cost includes lunch: \$35 for ASHRAE and MIAA members.

A Simple Way to be Sustainable

In the spirit of ASHRAE's commitment to sustainability, MASDeC (Minnesota ASHRAE Sustainable Design Committee) will be organizing carpools for future ASHRAE meetings and events. If you are interested in joining a carpool, or if you have any questions about carpooling, contact Dan Katzenberger at dkatzenberger@edilimited.com or (612) 343-5965. By joining a carpool you will save money, help to reduce road congestion, reduce pollution, reduce emissions of greenhouse gases, reduce oil consumption, be eligible to use the HOV lanes, be picked up at your door by a warm car, and most importantly, you will have the opportunity to exchange ideas and stories with other ASHRAE members on the ride to and from the meeting.

For the next meeting or two MASDeC will coordinate scheduling of carpools via e-mail and telephone. In the near future MASDeC hopes to be able to create lists of potential carpoolers based on pre-registrations for meetings (so remember to register early), and then send carpool invitations via e-mail based on ASHRAE members' work addresses. In the long term MASDeC would like to have an automated Web based carpooling map/database that would provide ASHRAE members the opportunity to create or join carpools based on their location and other carpooling preferences. MASDeC will also implement carpooling for their bi-monthly meetings, and we encourage other committees to carpool to their meetings as well.

To get an idea of the potential positive environmental impacts of ASHRAE carpools let's run some sample calculations. Assume: 9 meetings per year, 100 members per meeting, 10 mile average driving distance (one way), and 20 mpg average fuel economy. This results in driving 18,000 miles and consumption of 900 gallons of gasoline. What is this in terms of emissions estimates?

- § 50.4 kg (111.1 lb.) of hydrocarbon emissions
- § 376.2 kg (829.4 lb.) of carbon monoxide emissions
- § 25.0 kg (55.1 lb.) of nitrogen oxides
- § 8.2 tons (16,400 lb.) of carbon dioxide (greenhouse gas) emissions

At current IRS tax rates of \$0.485 per mile (low compared to AAA estimates), 18,000 miles costs drivers \$8,730. Divide this by the 100 members listed above and we see that each member is paying approximately, on average, \$87.30 per year to travel to and from ASHRAE meetings. Wouldn't you like to reduce this cost to approximately \$25.00? You can if you carpool.

If we could fill up 25 four person carpools for each meeting we could reduce our gas consumption by as much as 75%. This would reduce carbon dioxide emissions by ASHRAE members as much as 6 tons per year. So decide to carpool, contact Dan Katzenberger, and save your planet one meeting at a time.

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 <u>May 8, 2007</u> (Tuesday)

Seminar/Lunch

Meeting Sub-topic: Installation of Officers/Past Presidents Day/History - Utility Night

ü June, 2007

Golf Outing

Northern Lights Chapter

February14, 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

<u>December 19, 2006</u> - Mr. Park (3-D Airflow Simulation)

<u>January 16, 2007</u> - Ryan Company (Condensing and Non-Condensing Boiler Application)

<u>February 20, 2007</u> - Rick Hermans (ASHRAE Sustainability Road Map)

<u>March 20, 2007</u> - Ruskin (Sound Control Products and Application)

April 17, 2007 - Mankato State Trip

<u>April 26, 2007</u> - ASHRAE/SMMPA (Rochester Spring Seminar)

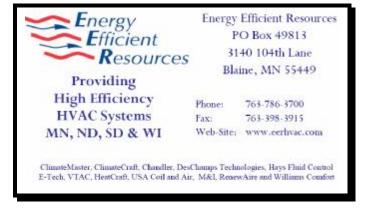
May 15, 2007 - Uponor (Chilled Floor Systems)

<u>August 2, 2007</u> - 12th Annual ASHRAE Golf Outing

Professional Directory

2007-08 Student Dinners
Trip to the AHR Meeting in
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Publication Deadline for the Next Exchanger; March 16th, 2007

All submissions must be in electronic format and should be emailed to the Editor: Daniel Chudecke – <u>Dchudecke@mulcahyco.com</u>

$\tilde{\mathbf{n}}$ $\tilde{\mathbf{n}}$ 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 March Meeting Notice

