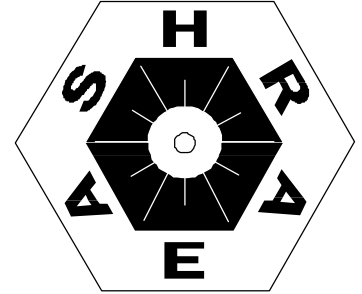
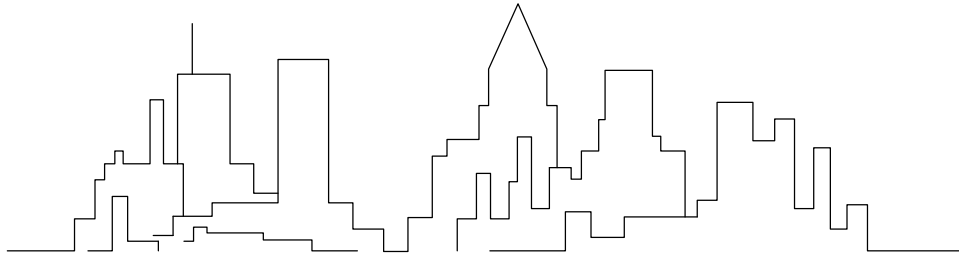


# The EXCHANGER



## Minnesota Chapter

[www.mnashrae.org](http://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

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OFFICERS		PHONE	FAX	E-MAIL
<b>PRESIDENT:</b>	Brian Shablow	651-602-0456	651-602-0455	<a href="mailto:bshablow@mech-sys.com">bshablow@mech-sys.com</a>
<b>PRESIDENT-ELECT:</b>	Jim Douglas	952-938-1588	952-938-1480	<a href="mailto:jimd@twgi.com">jimd@twgi.com</a>
<b>SECRETARY:</b>	Scott Rollings	763-786-3700	763-398-3915	<a href="mailto:srollings@eerhvac.com">srollings@eerhvac.com</a>
<b>TREASURER:</b>	Todd Courneya	952-525-2073	952-738-5230	<a href="mailto:todd.courneya@mmstwincities.com">todd.courneya@mmstwincities.com</a>
<b>BOARD OF GOVERNORS</b>				
	Gary Fischbach	763-544-5442	763-544-5569	<a href="mailto:garyf@tmsj.com">garyf@tmsj.com</a>
	Tim Manz	612-624-9082	612-625-6667	<a href="mailto:t.manz@umbuildingcode.com">t.manz@umbuildingcode.com</a>
	George Rothenberger	612-752-8735	612-338-4840	<a href="mailto:gerothenberger@edilimited.com">gerothenberger@edilimited.com</a>
	Curt Ratajczak	763-544-5442	763-544-5569	<a href="mailto:curtr@tmsj.com">curtr@tmsj.com</a>
<b>COMMITTEES CHAIRS</b>				
<b>COMMUNICATIONS</b>	Craig Johnson	651-209-2854	651-778-3911	<a href="mailto:craig.johnson@benham.com">craig.johnson@benham.com</a>
<b>CRC ACTION</b>	Jim Douglas	952-938-1588	952-938-1480	<a href="mailto:jimd@twgi.com">jimd@twgi.com</a>
<b>CTTC</b>	Tim Manz	612-624-9082	612-625-6667	<a href="mailto:t.manz@umbuildingcode.com">t.manz@umbuildingcode.com</a>
	Todd Gray	651-265-6030	651-265-6070	<a href="mailto:tgray@albersco.com">tgray@albersco.com</a>
<b>EDUCATION SEMINAR (co-chairs)</b>	Matt Branson	763-585-5040	763-566-2208	<a href="mailto:matthew.d.branson@jci.com">matthew.d.branson@jci.com</a>
<b>EXCHANGER</b>	Dan Chudecke	651-686-8580	651-686-8588	<a href="mailto:dchudecke@mulcahyco.com">dchudecke@mulcahyco.com</a>
<b>GOLF</b>	Jim Burns	651-686-8580	651-686-8588	<a href="mailto:jburns@mulcahyco.com">jburns@mulcahyco.com</a>
<b>HISTORIAN (co-chairs)</b>	Gary Grenzer	763-545-3731	763-525-3289	<a href="mailto:ggrenzer@atsr.com">ggrenzer@atsr.com</a>
	Mason Myers	952-545-8696		<a href="mailto:salmyers@ix.netcom.com">salmyers@ix.netcom.com</a>
<b>HOUSE (co-chairs)</b>	Mike Thorton	763-544-5442	763-544-5569	<a href="mailto:miket@tmsj.com">miket@tmsj.com</a>
	Mark Muhlstein	952-525-2033	952-738-5228	<a href="mailto:mark.muhlstein@mmstwincities.com">mark.muhlstein@mmstwincities.com</a>
<b>LIFE SAFETY</b>	Mark McCollough	952-525-2060	952-738-5237	<a href="mailto:mark.mccollough@mmstwincities.com">mark.mccollough@mmstwincities.com</a>
<b>MEMBERSHIP</b>	Paul Quirin	763-585-5161	763-566-2208	<a href="mailto:paul.e.quirin@jci.com">paul.e.quirin@jci.com</a>
	Rick Hermans	612-335-5840	612-335-5888	<a href="mailto:rhermans@mncee.org">rhermans@mncee.org</a>
<b>NORTHERN LIGHTS SECTION</b>	Jeremiah Christenson	701-280-0500	701-280-0522	<a href="mailto:jchristenson@obemermel.com">jchristenson@obemermel.com</a>
<b>P.A.C.</b>	Paul Quirin	763-585-5161	763-566-2208	<a href="mailto:paul.e.quirin@jci.com">paul.e.quirin@jci.com</a>
<b>PRODUCT DIRECTORY</b>	Kelly Hauenstein	651-481-8000	651-481-8621	<a href="mailto:kellyh@svl.com">kellyh@svl.com</a>
<b>PROGRAM</b>	Scott Rollings	763-786-3700	763-398-3915	<a href="mailto:srollings@eerhvac.com">srollings@eerhvac.com</a>
<b>PUBLICITY</b>	Gary Fischbach	763-544-5442	763-544-5569	<a href="mailto:garyf@tmsj.com">garyf@tmsj.com</a>
<b>RECEPTION</b>	Paul Quirin	763-585-5161	763-566-2208	<a href="mailto:paul.e.quirin@jci.com">paul.e.quirin@jci.com</a>
<b>REFRIGERATION (co-chairs)</b>	Vinod Gupta	651-778-4149	651-778-6371	<a href="mailto:vgupta@mnm.com">vgupta@mnm.com</a>
	Carol Marriott	763-553-5355	763-553-5445	<a href="mailto:carol.marriott@mcquay.com">carol.marriott@mcquay.com</a>
<b>RESEARCH PROMOTION</b>	Duane Rothstein	763-553-5418	763-5535445	<a href="mailto:duane.rothstein@mcquay.com">duane.rothstein@mcquay.com</a>
<b>ROCHESTER SECTION</b>	Mike Drahos	507-288-8088	507-281-8688	<a href="mailto:mdrahos@hga.com">mdrahos@hga.com</a>
<b>ROSTER</b>	Gary Grenzer	612-525-3231	612-525-3289	<a href="mailto:ggrenzer@atsr.com">ggrenzer@atsr.com</a>
<b>SCHOLARSHIP</b>	Curt Ratajczak	763-544-5442	763-544-5569	<a href="mailto:curtr@tmsj.com">curtr@tmsj.com</a>
<b>STUDENT ACTIVITIES (co-chairs)</b>	George Rothenberger	612-752-8735	612-338-4840	<a href="mailto:gerothenberger@edilimited.com">gerothenberger@edilimited.com</a>
	Steve Schreurs	952-238-6551	952-912-2601	<a href="mailto:sschreurs@edilimited.com">sschreurs@edilimited.com</a>
<b>SUSTAINABLE DESIGN (co-chair)</b>	Betti Iwanski	651-604-3172	651-639-9618	<a href="mailto:biwanski@energyconseratory.com">biwanski@energyconseratory.com</a>
<b>WEBMASTER</b>	Daniel Katzenberger			
	Allen Tillmann	612-761-5422	612-761-3321	<a href="mailto:allen.tillmann@target.com">allen.tillmann@target.com</a>
<b>LIAISONS</b>				
<b>University of Minnesota Faculty Advisor</b>	Tom Kuehn	612-625-4520		<a href="mailto:kuehn001@tc.umn.edu">kuehn001@tc.umn.edu</a>
<b>Dunwoody Faculty Advisor</b>	Chuck Taft	612-374-5267		<a href="mailto:cgtaft@peoplepc.com">cgtaft@peoplepc.com</a>
<b>Minnesota State Faculty Advisor</b>	Patrick Tebbe	507-389-6383		

## Presidents Corner

Submitted by Brian Shablow

Dear Constituents,

### REFRIGERATION SEMINAR:

A hats off to the Committee, it was COOL, but the speakers were “burning” so to speak with there knowledge and skills. A special thanks to Vin Gupta for rousing the Committee!!!!

Bruce Kamperschroer co-chair of the Refrigeration Seminar is also a member of RSES – ***Refrigeration Service Engineers Society***. Bruce is the Regional Director and spoke briefly about the long standing relationship of allowing RSES members to attend ASHRAE seminars at member cost and vice versa. Check out their website ([www.rses.org](http://www.rses.org)) “For 75 years, RSES has offered educational and certification programs to HVACR professionals of all experience levels. As the leading provider of educational meetings, seminars and workshops, RSES also provides technical examination programs and training courses for service professionals working on heating, ventilation, air conditioning and refrigeration systems across the nation.”

What Can You Do For ASHRAE?  
What Can ASHRAE Do For You?

Benefits of **Participation** in ASHRAE:

Leadership Skills  
Management Skills  
Improving Technical Skills  
Networking with Others  
Accessibility to Technical Resources  
Professional Development  
Transfer of Ideas  
Have Access to the Best Talent in the World  
Employers Gain Benefit

Please contact your Committee Chairs, Officers or myself to learn about how to get INVOLVED!

### MEMBERSHIP:

PLEASE take advantage of the Membership Drive incentive of bringing a guest to the membership meeting so that both of you get in free! Take this opportunity to ask co-workers or better yet YEA's that are not members to introduce them to our community.

Please let Mark Muhlstein know when you register. Contact Paul Quirin, Chair of membership to learn about becoming a member on-line. Refer to your website [www.mnashrae.org](http://www.mnashrae.org).

**YEA's don't forget to subscribe to the "YEA Connection"**

([http://cms.ashrae.biz/yea\\_connection/index.php](http://cms.ashrae.biz/yea_connection/index.php)).

Guests if you are attending a meeting for the first time please ask to talk to our Reception Committee Chair, Past President, Curt Ratajczak. Curt is there to be of assistance and make you feel at home!

**Hope to see you in March!**

And, wish all are well, doing good work, and keeping in touch via [www.mnashrae.org](http://www.mnashrae.org) !

## Chapter Information

### **Technology Award Applications**

Submitted by Tim Manz and Todd Gray  
CTTC Co-Chairs

The Chapter Technology Transfer Committee (CTTC) of the Minnesota Chapter of ASHRAE has announced that Technology Award Applications are due on **Monday, February 4, 2008**. 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](http://www.ashrae.org/cttc)

Don't be overwhelmed by the application process, even if you have never submitted an application 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 contact Tim Manz or Todd Gray.

Also, don't forget that the winner at the chapter level receives \$100 and will have his/her application submitted to the regional level for additional award considerations!

Tim Manz  
[manzx003@umn.edu](mailto:manzx003@umn.edu)  
(612) 624-9082

Todd Gray  
[tgray@albersco.com](mailto:tgray@albersco.com)  
(651) 265-0630

## MASDeC Green Product Directory Update

The first generation of the MASDeC's Green Product Directory has been a success, as over 200 individuals have visited the directory since it's release in the Fall. Almost 100 products and links are included in the directory to assist the engineering community in energy efficient and sustainable engineering design.

Since it's inception, the Green Product Directory has received requests to include additional products in the directory. For those who would like to submit a product for inclusion in the spring MASDeC Green Product Directory and who have not yet done so, **the deadline for submissions is April 14th**. The MASDeC committee will then review all submitted product information to confirm its applicability for sustainable engineering and posting to the website in May.

To view the current directory or to learn more about how the product directory is organized, go directly to [www.mnashrae.org/green\\_product\\_directory.html](http://www.mnashrae.org/green_product_directory.html) or through the MN ASHRAE Chapter website at [www.mnashrae.org](http://www.mnashrae.org). If a product would like to be included in the directory, please send all brochures, case studies, or technical data to [GreenProductDirectory@mnashrae.org](mailto:GreenProductDirectory@mnashrae.org)."

## Local Technical and Engineering Talent

Submitted by Steve Schreurs

Your Minnesota Chapter sponsors three ASHRAE student branches at Dunwoody College, Minnesota State University Mankato and the University of Minnesota, Institute of Technology. A number of ASHRAE student members at these schools are looking for internship opportunities this summer. Others are nearing graduation and seeking entry level positions in the HVAC industry.

Each of these schools maintains a student career service and placement office that can be accessed at the college websites. The career services allow you to view student resumes and post job openings. Use a search engine like Google to locate the college websites and the associated career services. You may also wish to contact our student branch advisors as well at:

Chuck Taft at Dunwoody College - [cgtaft@peoplepc.com](mailto:cgtaft@peoplepc.com)

Patrick Tebbe at Minnesota State University Mankato –  
[Patrick.tebbe@mnsu.edu](mailto:Patrick.tebbe@mnsu.edu)

Tom Kuehn at the University of Minnesota - [kuehn001@maroon.tcmn.edu](mailto:kuehn001@maroon.tcmn.edu)

By working together we can create opportunities for the new generation of HVAC specialists that will carry the torch when it comes time for us to move on.

## **Looking for a Few Good Firms to Help Sponsor our Student Members**

Submitted by Steve Schreurs

Last year six local firms sponsored student branch members to attend the monthly chapter meetings and to help send several students to the ASHRAE Winter Meeting in Dallas. Our sponsors were Energy Efficient Resources, Midwest Mechanical Solutions, Minnesota Air, R.M. Cotton Company, Schwab Vollhaber Lubratt and TMS Johnson. These organizations stepped up to the plate to each make a \$200 donation to the Minnesota Chapter on behalf of our student members.

This year's ASHRAE Winter Meeting was in New York which is just a bit more costly so your chapter board decided to concentrate on getting students to attend our local chapter events.

For 2007/2008 we're asking interested firms and individual members to help sponsor our students by making a donation of \$125. To become a student sponsor for local meetings contact George Rothenberger or Steve Schreurs at the phone number or e-mail address listed on the front page of the Exchanger.

### **Society Information**

#### **ASHRAE Can Help Students with Internship Possibilities**

ASHRAE offers an internship program for ASHRAE student members and employers (seeking student interns from engineering, architectural, or construction management programs).

The purpose of the program is to place ASHRAE student members in industry internships. Employers can post their available internships, and student members can research and apply to the companies directly for positions meeting their search criteria.

Why wait? Post your available internships now and be a part of developing the future leaders of the HVAC&R industry!  
You can make a difference in the future of an ASHRAE student member.

Go to: <http://www.ashrae.org/students/page/955> for more information.

## Upcoming Events

### Minnesota Chapter Meeting & Event Calendar

#### October 9th, 2007 Dinner

Meeting Topic: Tour — Energy High Bridge  
Plant — Tour at 5 pm — Dinner at 6:30

-Sub Topic Student Night

#### October 31st, 2007 Seminar

Joint Venture w/ AEE — 7 Seminars and  
Product Show

#### November 13th, 2007 Lunch

Technical Committee Review

—Sub Topic Research Promotion

#### December 11th, 2007 Seminar

Meeting Topic: MASDeG

—Sub Topic Membership

#### January 8th, 2008 Lunch

Meeting Topic: To Be Determined

-Sub Topic History

#### February 12th, 2008 Seminar

Refrigeration Seminar

#### March 11th, 2008 Lunch

Meeting Topic: To be determined

#### April 8th, 2008 Seminar

Meeting Topic: Education Seminar

#### May 13th, 2008 Lunch

General Business Meeting

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

#### June 9th, 2006

Golf Outing

### Northern Lights Chapter

To Be Announced

### Rochester Section Schedule

To Be Announced

### ASPE Meeting Schedule

The Chapters meet's on the **3rd Wednesday**  
of every month @ 11:30 am - 1:30 pm  
Cedars Hall  
602 University Ave. NE  
Mpls. MN 5 5413

Always consult

<http://www.aspe.org/Minnesota/>

For the latest information

March 19th - Design and Application of  
Roof Drains  
April 16 - To Be Determined  
May 21 - Cast Iron Piping Joining  
Methods

## Professional Directory



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

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

Phone: 763-786-3700  
Fax: 763-398-3915  
Web-Site: [www.eerhvac.com](http://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

**2007-08 Student Dinners  
Graciously Sponsored by:**

TO BE DETERMINED!

Space for Rent

Space for Rent

**Publication Deadline for the  
Next Exchanger; March 24th, 2008**  
**All submissions must be in electronic format and should be emailed to the  
Editor: Daniel Chudecke – [dchudecke@mulcahyco.com](mailto: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

**ATTACHED: March Seminar Notice  
April Education Seminar**



# MINNESOTA CHAPTER

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

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### Meeting Notice – Tuesday, March 11th, 2008 (Lunch Meeting)

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*Energy Management in Existing Buildings—A Sustainable Activity*

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### Sub-Topic: Research and Promotion

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### NOTE NEW LOCATION:

**Cedars Hall at  
St. Maron's Church  
602 University Ave. NE  
Minneapolis, MN 55413**

**12:00 – 12:15 pm:  
Social "Hour"**

**12:15 – 12:40 pm:  
Lunch and Business Meeting**

**12:40 – 1:30 pm:  
Presentation**

**12:40 to 1:30 pm:** Dick Pearson, P.E., ASHRAE Fellow, will speak on Energy Management

**Abstract:** Buildings consume 38.5% of all U.S. energy. It is practical and feasible to reduce building energy consumption by one third. Facility managers who practice sustained Energy Management can potentially save 13% of all energy used in the U.S. **ENERGY MANAGEMENT IS A TRULY SUSTAINABLE ACTIVITY.** Using basic management techniques, facility managers can significantly improve the efficiency of most buildings, and can maintain a high level of efficiency in the few that are actually efficient. This presentation includes case studies and examples.

**Cost:** The cost of the lunch and program is **\$35.00** and student members of ASHRAE are **FREE**.

**Registration:**

1. Website at [www.mnashrae.org](http://www.mnashrae.org) by **March 7, 2008** (and pay by credit card!) or
2. Email Mark Muhlstein at [mark@mmstwincities.com](mailto:mark@mmstwincities.com) or
3. Mail your check in advance to: **MN Chapter of ASHRAE**  
c/o Mark Muhlstein, 5831 Cedar Lake Road, Minneapolis, MN 55416

**Note:** **NO SHOWS** will be billed for the meeting, so plan accordingly.

**Parking:** Free parking is available at Cedars Hall.

**Membership Drive:** If you are a member of ASHRAE who has paid chapter dues and you bring a guest, you both get **FREE** registration (a \$70 value). Register by sending an email to Mark Muhlstein at [mark@mmstwincities.com](mailto:mark@mmstwincities.com) and specify "**Membership Drive**" in the email.

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# 2008 EDUCATION SEMINAR: *Renewable Energy Sources and Strategies*



**Tuesday,  
April 8, 2008**

**8:15 AM - 1:30 PM**

**Doubletree Park Place Hotel  
1500 Park Place Blvd.  
Minneapolis, MN 55416  
(952) 542-8600**

## SEMINAR AGENDA

TIME	TOPIC
7:30 to 8:15	<b>Registration</b>
8:15 to 9:15	<b>Biomass as a Source of Renewable Energy</b> <ul style="list-style-type: none"> <li>• What is it and how does it work as fuel?</li> <li>• How is it produced and implemented?</li> <li>• Potential challenges of using biomass</li> </ul> <b>Speaker:</b> Doug Maust, HGA, Minneapolis, MN
9:15 to 9:30	<b>Break</b>
9:30 to 10:30	<b>Trends of Renewable Energy with an Emphasis on Wind Power</b> <ul style="list-style-type: none"> <li>• Wind power plant and its impact on utility costs</li> <li>• Case study of wind power plant in southern Minnesota</li> <li>• Regulatory requirements and the future of wind power</li> </ul> <b>Speaker:</b> Steve Mudd, Xcel Energy, Denver, CO
10:30 to 10:45	<b>Break</b>
10:45 to 11:45	<b>Cogeneration System Technology</b> <ul style="list-style-type: none"> <li>• Equipment design, sizing and applications</li> <li>• Power plants and use of all available energy</li> <li>• Regulatory requirements and business challenges</li> </ul> <b>Speaker:</b> Jerry Peterson, Johnson Controls, Minneapolis, MN
11:45 to 12:30	<b>Lunch and Chapter Business Meeting</b>
12:30 to 1:30	<b>Ethanol as a Source of Energy: Pros and Cons</b> <ul style="list-style-type: none"> <li>• Ethanol production process</li> <li>• Regulatory requirements and the future of ethanol processing</li> <li>• Ethanol's impact on the U.S. economy</li> </ul> <b>Speaker:</b> Bob Sather, Ace Ethanol, Stanley, WI

## REGISTRATION INFORMATION

ASHRAE CHAPTER MEMBER:  
NON MEMBER:  
ASHRAE STUDENT MEMBER: .

ENCLOSED IS MY CHECK FOR \$100  
ENCLOSED IS MY CHECK FOR \$130  
FREE

**A LATE FEE OF \$30** WILL BE ADDED TO THE ABOVE FOR REGISTRATION **AFTER APR. 4, 2008.**

THE COST OF LUNCH, CHAPTER BUSINESS MEETING AND LUNCHEON SPEAKER IS **ONLY \$35.**

## VENDOR/EXHIBITOR TABLE TOP DISPLAY

FOR \$250 (INCLUDES ONE LUNCH AND \$175 FOR ASHRAE RESEARCH)  
ONLY 6 TABLES ARE AVAILABLE: FIRST COME, FIRST SERVED!  
(EMAIL MARK MUHLSTEIN AT [mark@mmstwincities.com](mailto:mark@mmstwincities.com) FOR A TABLE RESERVATION)

## REGISTRATION FEE INCLUDES

LUNCH, CHAPTER BUSINESS MEETING, 4 PRESENTATIONS AND MORNING BREAKS

## CONTINUING EDUCATION

A TOTAL OF 5 (FIVE) PROFESSIONAL DEVELOPMENT HOURS (PDHs) ARE AVAILABLE

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## REGISTRATION FORM

MAKE CHECKS PAYABLE TO: **MINNESOTA ASHRAE**  
2008 EDUCATION SEMINAR  
TUESDAY, APRIL 8, 2008

ENCLOSED IS MY CHECK FOR \$ \_\_\_\_\_

I AM AN ASHRAE CHAPTER MEMBER \_\_\_\_\_ I AM A STUDENT MEMBER \_\_\_\_\_

**REGISTRATION MUST BE RECEIVED BY FRIDAY, APRIL 4, 2008  
TO AVOID A LATE FEE OF \$30 AND TO ENSURE YOUR SPOT!**

NAME: \_\_\_\_\_ COMPANY: \_\_\_\_\_

PHONE : \_\_\_\_\_ EMAIL: \_\_\_\_\_

## SEND REGISTRATION TO:

Mark Muhlstein, Midwest Mechanical Solutions  
5831 Cedar Lake Rd  
Minneapolis, MN 55416  
FAX: 952-738-5228

YOU CAN ALSO REGISTER ELECTRONICALLY (THE SUSTAINABLE WAY):

Email: [mark@mmstwincities.com](mailto:mark@mmstwincities.com) OR

Register online at [www.mnashrae.org](http://www.mnashrae.org) (and pay with a credit card!)

**NO SHOWS WILL BE BILLED FOR THE SEMINAR, SO PLEASE PLAN ACCORDINGLY!**

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