



[American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.](#)

ASHRAE

2008-2009 OFFICERS

President

Lorraine Kapka 512-4501
Sinclair Community College
Lorraine.Kapka@Sinclair.edu

President-Elect

Jeremy Fauber 224-0861
Heapy Engineering
jpfauber@heapy.com

Secretary

Colleen Haun 513-673-6664
Ramsay-Cohron
chaun@rcme.com

Treasurer

Rick Pavlak 224-0861
Heapy Engineering
rpavlak@heapy.com

Committee Chairs

Membership

Russ Rhodus 223-0811
2-J Supply
russr@2-jsupply.com

History

Tom Ferdelman 224-0861
Heapy Engineering
tferdelman@sbcglobal.net

Newsletter Editor

Lorraine Kapka 512-4501
Sinclair Community College
Lorraine.Kapka@Sinclair.edu

Research Promotion

Dennis Lamlein 859-6323x147
Signature Technologies
dlamlein@woh.rr.com

Student Activities

Russell Marcks 512-2053
Sinclair College
Russell.Marcks@sinclair.edu

CTTC

Mike Kirchens 513-475-3807 or
937-776-7304
Elitaire
mkirchens@elitaire.com

Past President

Greg Cohron 513-673-6664
Ramsay-Cohron
gcochron@rcme.com

Board of Governors

Frank Mauro 224-0861
Heapy Engineering
famauro@heapy.com

Dayton Chapter
PO Box 3202 Dayton, OH 45401

<http://www.daytonashrae.org>

Let's Do Lunch!

Variable Refrigerant Volume Flow (VRF) Systems What they are and how they work

Rob Kuhlmann, Daikin

Tech Session: Standard 90.1

Bob Thomson, President, Tri-Tech Associates, Inc.

10:30 Tech Session

11:30 Lunch

11:45 Chapter Business

12:00 Featured Speaker

Paid members: Free

Student ASHRAE Members: \$10 at the door

Guests: \$20 at the door

February 9, 2009

Engineer's Club of Dayton

110 East Monument Avenue

RSVP: For reservations contact **Jeremy Fauber at Heapy Engineering, jpfauber@heapy.com or 224-0861 no later than noon Thursday, Feb. 5th.**

Topic: Variable Refrigerant Volume Flow (VRF) Systems

At the heart of every VRF system is an inverter-driven compressor. This advanced technology enables the output of the outdoor unit to be "varied", modulated by the cooling or heating demands of the zone that it controls. The VRF system uses a Proportional Integral Derivative (PID) control system, giving added control over the rotational speed of the compressors and allowing the amount of refrigerant flowing in the system to vary depending on fluctuating needs. By using inverter technology, compressors strive to run continuously at the minimum variable speed that matches the capacity of the current load, which is ideal for high efficiency operation.

Speaker: Rob Kuhlmann brings to Daikin over twenty years experience in the HVAC-R industry. His experiences range from residential with a local HVAC contractor to OEMs of residential and industrial HVAC-R equipment. After thirteen years at a local manufacturer of environmental chambers, Rob joined a leading HVAC-R valve manufacturer. Prior to coming to Daikin, Rob was responsible for Commercial Equipment Sales for the Greater Cincinnati / Northern Kentucky area for one of the top HVAC-R wholesale distributors in the country.

Tech session Speaker: Mr. Thomson is a practicing registered engineer with over 25 years of experience. Bob is instrumental in leadership and mentoring within Tri-Tech, and contributes to the professional development within the engineering community through leadership and training in trade organizations. He has been involved with complex construction, plant modernization, and system design projects within industrial, commercial, environmental, residential and governmental operations.

A Note from the President

What a great time we all had at the bowling party—if you missed it, ask someone who was there about “Goofy Bowling”! Even those of us who have not bowled in more years than we can count had fun (I still tell everyone that my “silver pin” trophy was for “second” place, not “Worst bowler”).



Were you in Chicago for the ASHRAE show? Unfortunately, I was there for a committee meeting Friday but had to leave before things really kicked off—maybe we can get those lucky enough to stay to give us the highlights (other than the cold weather 0 I was there for that!)

This month’s program is a luncheon meeting on Variable Refrigerant Flow systems, with a “Back to Basics” tech session on ASHRAE Standard 90.1. And be sure to mark your calendars for March—our program on “Integrated Building Design” promises to be a highlight of the year (invite an Architect or Project Manager you know—it will be well worth their time!

April brings back the ASHRAE Webcast. This year’s topic is Indoor Air Quality and it is worth 3 PDH’s towards your Engineering registration renewal. We’ll have a “watching party” in the Forum at Sinclair—see page 3 for more details.

Organizations like this don’t run themselves—we are always looking for people to “step up” and help out. Come to the next BOG meeting on Thursday, February 19 at 8 AM at Heapy Engineering to find out how you can be a part of making things happen at Dayton ASHRAE.

Sincerely,

Lorraine A. Kapka, P.E.

Give a Little, Get a Lot! Chapter Board of Governors Meetings

Ever ask yourself “whose idea was it to schedule a bowling party/baseball game/speaker on ___?” “Want to make a difference in how the Dayton ASHRAE Chapter operates? Come share your thoughts with the Board of Governors (sounds impressive, but is really just a bunch of HVAC people sitting around a table trying to guess what YOU would like to have happen at meetings,) Meetings are held the third Thursday of each month at 8 AM at Heapy Engineering. We spend time talking about future meetings, ways to improve the chapter, other ways to inject fun into the coming year, etc. Want to have a say in how things are done? We welcome you to join us—the next meeting is **Thursday, February 19, 2009 at 8 AM**. Donuts from Bill’s (and coffee) are always there! [Remaining Chapter Board of Governors meetings are Feb, 19, Mar. 19, Apr. 16, May 21 and Jun. 18.](#)

Coming Events 2008/2009



October 13, 2008 – Dinner - “Net Zero” Energy Buildings, Membership Promotion night.

October 27, 2008 - **RESCHEDULED!** Young Engineers in ASHRAE lunch (35 and younger)

November 10, 2008 – Dinner - Dedicated Outdoor Air Systems (ASHRAE Distinguished Lecturer) Student night and research promotion night. Tech session : “Standard 62 — What Now?””

December 8, 2008 – Lunch - Heating Systems. **Tech session before meeting: Psychrometrics, Part II**

January 17, 2009 – Holiday Bowling Party at Woodman Lanes in Kettering

February 9, 2009 – Lunch - Variable Volume Refrigerant Systems *Tech session before meeting: ASHRAE Standard 90.1.*

February 19, 2009—Board of Governors, 8AM at Heapy Engineering

March 9, 2009 – Dinner - Integrated Building Design

April 13, 2009 – Bus tour to Copeland plant with Dinner

April 22, 2009 - ASHRAE Webcast - Indoor Air Quality at Sinclair Community College

May 14, 2009 – Golf Outing at Heatherwood

May 30, 2009- ASHRAE at the Dayton Dragons

June 2009 - Green Expo at Heapy Engineering

July 31 – August 1, 2009 - Chapters Regional Conference in Akron, Ohio. Chapter officers and committee chairs required to attend - all other members are welcome!

October 20, 2009—Mini-ASHRAE Show and program, Sinclair Community College.

Student ASHRAE News



Sinclair student ASHRAE chapter meets Thursday, February 26 at 6:15 PM in room 1001. Cookies and drinks are always served, along with a topical speaker. All are welcome to join us!

Coming This Month:

Monday, February 9th

Lunch Meeting with tech session

Thursday, December 18th

Board of Governors Meeting

8 AM at Heapy Engineering

Clean, Lean, and Green: IAQ for Sustainable Buildings

April 22, 2009, 1:00 p.m. - 4:00 p.m. EDT

Using the guidance provided by the *IAQ Guide: Best Practices for Design, Construction, and Commissioning* developed through collaboration with ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC, this broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. Join ASHRAE in learning more about your role in transforming mid-range practice into best practice for healthy, productive, sustainable indoor environments.

Tentative agenda:

1:00 p.m. Introduction – Don Rheem, Moderator

Opening Remarks – Bill Harrison, ASHRAE President

Roundtable Discussion – Presenters

Martha Hewett – “Practical, Proven Strategies to Deliver Better IAQ”

John McFarland – “Integrating Good IAQ into the Design & Construction Process”

George DuBose – “Avoiding Costly IAQ Problems in the Building Envelope”

Approx. 2:20 Break

H.E. Barney Burroughs – “Keeping Buildings Clean: Avoiding and Building Control of Contaminants to Attain and Maintain IAQ Acceptability”

Hoy Bohanon – “Improving Your IAQ and Reducing Your Energy Costs through HVAC Design”

Audience Question and Answer Session

3:55 p.m. Closing – Don Rheem, Moderator

Join us at Sinclair Community College in Building 14, Room 130 for snacks and viewing on the big screens.



Research Promotion News

If you are lucky enough to be employed by this industry, how about giving a little back by making a contribution to HVAC Research? Use the form attached or bring your contribution to the next meeting. We are continuing our “I Gave” campaign, looking for increased participation in Research support by individual members. Last year only 13% of us participated—wouldn't it be great if we could double or triple that? Won't you help?

Dayton Chapter History

Ever wonder where all of the wonderful history information comes from? Tom Ferdelman prepares it based on input from past presidents.

Without your help, this section will be blank. So, if you see your name on the list below, get your history information in to Tom, or this blank space will remain . . . Blank!:



Histories needed from:

| | |
|-----------------|---------|
| Dennis Helmig | 1989/90 |
| Rick Huff | 1990/91 |
| Phil Van Styn | 1991/92 |
| David Schmenk | 1992/93 |
| Chris Hampel | 1993/94 |
| Mark Neiheisel | 1994/95 |
| John Mosgo | 1995/96 |
| Dennis Lewis | 1996/97 |
| David Deger | 1997/98 |
| Jim Hocker | 1998/99 |
| David Patterson | 1999/00 |
| Joe Ferdelman | 2000/01 |
| Jeff Evans | 2000/02 |
| Russ Marks | 2002/03 |
| Bart Gruernwald | 2003/04 |
| Bruce Knapp | 2004/05 |
| Mike Kirchens | 2005/06 |
| Tom Ferdelman | 2006/07 |



Dayton Chapter ASHRAE

<http://www.daytonashrae.org>

Membership Application and Roster Information 2008-2009

Your Name

Your Company Name

Home Address

Business Address

City State Zip

City State Zip

() - _____
Home Phone Spouse Name

() - _____
Business Phone Ext. Fax Number

Home e-mail address

Business e-mail address

SEND NEWSLETTER TO: Home Address Home email address Business Address Business email address

I prefer Lunch Meetings ___ I prefer Dinner Meetings ___ I have no preference _____

Chapter achievements are accomplished through active committee involvement. If you would like to promote your Society by serving as a committee chair or assist on one of the chapter committees, please indicate in which committee you are interested below. Please indicate your first preference by number 1 and so on.

- Education Membership Research Historian Newsletter Chapter Office
- CTT (Refrigeration; Technical, Energy & Government; Programs) Golf Outing Communication
- Holiday Party Honors & Awards

Please Check Your Preferred Roster Affiliation

Consultant Contractor Industry/Government Retired

Education Student: School _____ Degree _____ Approximate Graduation Date _____

Wholesalers, Manufacturer's Rep/Sales Offices, Fill in trade names of products you represent below

| | | |
|--------------------------------|--|-------------------------|
| Air Devices | | Louvers and Dampers |
| Air Handlers | | Make-Up Air Units |
| Boilers | | Packaged A/C |
| Building Automation | | Pre-Insulated Pipe |
| Chillers | | Pumps |
| Coils | | Sound Attenuation |
| Computer Room Equipment | | Steam Specialties |
| Cooling Towers | | Air Terminal Units |
| Ductwork | | Thermal Storage |
| Dust Collection | | Unit Heaters |
| Fans | | Unit Ventilators |
| Fan Coil Units | | Vibration Isolators |
| Filtration | | Valves |
| Heat Exchangers | | Variable Speed Drives |
| Heating Equipment | | Water Source Heat Pumps |
| Humidity Control | | Water Treatment |
| Kitchen, Laboratory Fume Hoods | | Other |

*Dayton Chapter ASHRAE dues for the Society year beginning July 1, 2008 and ending June 30, 2009 are \$95 per year. Dayton Chapter ASHRAE dues include 6 dinner/lunch meetings, and both you and a guest for the holiday event. * Note: Be sure to begin paying Local dues when you pay your National Dues.*

Please return this application and a check or money order in the amount of \$95 made payable to Dayton ASHRAE to:

DAYTON ASHRAE, PO Box 3202, Dayton, OH. 45401

Paid local dues with your annual dues? Please return the form anyway!



ASHRAE RESEARCH Dayton ASHRAE

Contribution Form

Thank you in advance for your commitment to ASHRAE Research! Remember, this is our livelihood. ASHRAE's research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, I am asking you to help fund the future HVAC&R research and professional development.

Name: _____

Address: _____

Phone Number: _____

Member Number (If known): _____

Amount: _____

Do you want to be recognized in the Dayton newsletter as a contributor? (circle) YES NO

Mail completed form with your check, payable to ASHRAE Research to:

**Denny Lammlein
29 Sandelwood Street
Springboro, OH 45066**

