



ASHRAE

2008-2009 OFFICERS

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Dayton Chapter
PO Box 3202 Dayton, OH 45401

<http://www.daytonashrae.org>

Student Night/Research Promotion Night

Dedicated Outdoor Air Systems (DOAS): Design and Field Experiences

Featuring ASHRAE Distinguished Lecturer Dr. Stanley Mumma,
Professor Emeritus of Architectural Engineering, Penn State

Tech Session: "Standard 62—What Now?"

Alec Carnes, Heapy Engineering

5:00 Tech Session

5:30 Social and Check-in

6:15 Dinner

6:45 Chapter Business

7:00—8:00 Featured Speaker

Paid members and students: Free

Guests: \$20 at the door

November 10, 2008

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, Nov. 6th.

Topic: Dedicated Outdoor Air Systems (DOAS): Design and Field Experiences

Applications of DOAS have expanded significantly over the past 5 years. As a result, Dr. Mumma's presentation focus has shifted away from "The Reasons Engineers Are Seriously Considering Them" to "DOAS Design Field Experiences". Specific attention will be given to controls, enormously expanded equipment choices, comfort and ADPI, energy performance, humidity control, loss of air side economizers, LEED points, parallel systems, and pitfalls.

Speaker: Dr. Stanley Mumma is currently Professor Emeritus of Architectural Engineering at Pennsylvania State University. Prior to joining Penn State in 1984, he was a General Motors Corporation project engineer for three years between his undergraduate studies in Mechanical Engineering at the University of Cincinnati, and his graduate work at the University of Illinois at Urbana-Champaign. Since earning his Ph.D. in Mechanical Engineering in 1974, under the mentorship of Dr. Will Stoecker, he has also held faculty positions at Ohio State University and Arizona State University. In the first third of his academic career, his research focused principally on solar and alternate energy. Then his interests changed to innovative ways of meeting ASHRAE Standard 62 in an energy efficient fashion. That work has led to his current intense interest in dedicated outdoor air systems (DOAS). He writes extensively on the subject (see <http://doas-radiant.psu.edu/papers.html>). Two of his publications were recipients of ASHRAE best paper awards. He has also received ASHRAE's Distinguished Service Award, the E.K. Campbell Award of Merit, and the grade of Fellow. Currently, Dr. Mumma is a member of several Technical Committees and the Society Publishing Committee.

A Note from the President

Congratulations to those being recognized for their research promotion contributions this month. *Wouldn't it be great if we could say that all chapter members contributed next year(no amount is too small) instead of the 13% who contributed this year?*



What a great program by Kelly Kissock on net zero energy buildings this past month. And how about the tech session on Psychrometrics? It was so well-received, that we have asked for a "Part 2" at the December meeting.

As you all know, we tried something new this year as a way of getting some younger members of our technical community more involved with ASHRAE. The Young Engineers in ASHRAE (YEA) lunch was attended by approximately 35 people—Joe Ferdelman spoke on the benefits of joining and becoming involved in ASHRAE activities, followed by an excellent talk on "The Future of Energy" by John Fanselow from Third Sun Solar & Wind Power, Ltd. We have already gained one new member from this meeting and will be following up with the other attendees.

This month we have another exciting and important program. We are fortunate to have Professor Stanley Mumma, an ASHRAE Distinguished Lecturer from Penn State, who will talk about Dedicated Outdoor Air Systems. We also have an important Tech Session before the meeting on the most recent changes to ASHRAE Standard 62.

I've been doing some business traveling and have a few conclusions to share:

(1) Large hotels/conference centers (based on the two I visited in the past two weeks) have many opportunities in both HVAC and lighting for improvements (when the conference room is so cold that everyone runs outside where it is 90 degrees on breaks to warm up, you know there are energy conservation opportunities).

(2) Despite the down economy, high energy prices may make this a good time to "up-sell" energy efficiency and "green" if the customer is replacing existing equipment. Distributors report that customers have been very receptive to this over the past several months. (I was at the HARDI conference where I picked up on this.)

(3) Same conference, the wholesalers and distributors were talking about jumping on green, LEED and Energy Star Buildings as providing opportunities, but most of them have little idea what it all means—there will be opportunities to train as well as partner with these firms as more customers become interested in these issues.

We are busy planning the holiday party. Make sure your input is heard—join as at the **next BOG meeting on November 20th** so you don't find us planning something of no interest to you.

Thanks again to all of the officers and committee chairs for their past and continuing service to the Dayton Chapter.

Sincerely,

Lorraine A. Kapka, P.E.

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 before meeting:** "Standard 62 — What Now??"

November 20, 2008—Board of Governors, 8AM at Heapy Engineering

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

December 12, 2008 – Research Promotion Breakfast (by invitation)

January, 2009 – Holiday Party TBD

February 9, 2009 – Lunch - Hybrid HVAC Systems (ASHRAE Distinguished Lecturer)

March 9, 2009 – Dinner - 3-D Integrated Design

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

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

May, 2009 – Golf Outing TBD

June, 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!

Student ASHRAE News



November 10, 2008: Student night at Dayton ASHRAE

Need a little help in your business? Sinclair is always looking for co-op, intern and part-time placements for students.

Contact Lorraine.Kapka@sinclair.edu or 512-4501 if you are interested.

Coming Next Month:

Monday, December 8th

Lunch Meeting with tech session

Friday, December 12th

**Research Promotion Breakfast
(by invitation)**

Thursday, December 18th

**Board of Governors Meeting
8 AM at Heapy Engineering**



Research Promotion News

Exciting News! The Dayton Chapter has reached its "Full Circle" research promotion goal for 2008-2009 (all chapter officers giving at least \$100). Wouldn't it be nice if

everyone gave a little to help us meet our new research promotion fundraising goal of \$8000? Think what a difference you could make!

The following members and companies contributed to our research promotion campaign this past year. Individuals donating \$100 or more and companies donating \$150 or more will be recognized at the November meeting. In total, our chapter raised \$7310 for research this past year (not including the Copeland donation).

\$5,000 or Greater

Emerson Climate Technologies / Copeland Indust.

\$1000 - \$4999

Waibel Energy Systems

\$500 - \$999

Controlled Air Incorporated
Elitaire, Inc.

Ramsay Cohron Mechanical Equipment
Starco Incorporated
Stoermer-Anderson Incorporated

\$250 - \$499

Dayton ASHRAE
Heapy Engineering
Uptime Solutions

\$150 - \$249

Allied Supply Company Incorporated
BC&E Engineering
Contech Design Incorporated
Jim Davidson
Dennis Helmig
John R. Patterson
Patterson Equipment Incorporated
Zimpher Sales Incorporated

\$100 - \$149

James R. Albitz
Gregory P. Cohron
Joe Ferdelmann
Thomas J. Ferdelmann
Jeremy P. Fauber
Sidney Hagan
Colleen A. Haun
Lorraine A. Kapka
Dennis R. Lammlein
Frank A. Mauro
Richard R. Pavlak
Warren O. Smith

\$25 - \$99

Thomas E. Monnig
Richard B. Pavlak

Dayton Chapter History

Greg Cohron was President from August 2007 to August 2008. Under his helm, the Dayton Chapter continued the rebirth started by Tom Ferdelman the prior year. The Chapter was able to come in first in the Region in membership promotion, second in student activities, third in history, fourth in Chapter operations and CTTC Chapter technology and fifth in research promotion. Overall, Dayton ASHRAE ranked 4th out of thirteen chapters in the Region in PAOE points. PAOE or "Presidential Award of Excellence" is the performance standard for the Chapters of ASHRAE. There are six categories to PAOE. The categories are Membership Promotion, Student Activities, Research Promotion, History, Chapter Operations, CTTC Chapter Technology Transfer Committee. In addition, Greg had a desire to increase Dayton's involvement in Research Promotion by holding a special morning breakfast for the heads of companies involved in the HVAC business. The meeting was a success and Dayton made a major improvement in its donation to Research.



Greg Cohron owns Ramsay-Cohron Mechanical Equipment and Custom-Flo. Ramsay-Cohron Mechanical Equipment was established in 1990 with the partnership between Jack Ramsay and Greg Cohron. RCME is a manufacturers representative that sells HVAC and process cooling systems to the industrial, institutional, and office market. The company is now owned solely by Greg Cohron and has three (3) major divisions consisting of HVAC Manufacturers Representatives or New Equipment Sales, Aftermarket/Parts, and Service. Custom-Flo, established in 1992, designs and manufactures packaged pumping systems, electrical control panels, and intricate control systems for both detention centers and the HVAC and process industries. Both companies occupy a 28,000 square foot office/manufacturing facility located on the northwest side of Cincinnati and employ approximately forty employees in a variety of positions.

Try Something New!

Chapter Board of Governors Meetings

Sounds a little stuffy, actually a lot of fun. Meetings are held the third Thursday of each month at 8 AM at Heapy Engineering. We spend 1-2 hours talking about future meetings, ways to improve the chapter, other ways to inject fun into coming year, etc. Want to have a say in how things are done? We welcome you to join us—the next meeting is **Thursday, November 20, 2008 at 8 AM**. Donuts from Bill's (and coffee) are always there! **Remaining Chapter Board of Governors meetings are Nov. 20, Dec. 18, Jan. 15, Feb. 19, Mar. 19, Apr. 16, May 21, Jun. 18.**

Dayton ASHRAE Research Promotion Corporate Honor Roll 2008

Platinum

Waibel Energy Systems

Gold

Controlled Air, Inc.

Elitaire, Inc.

Ramsay-Cohron Mechanical Equipment

Starco

Stoermer-Anderson

Silver

Heapy Engineering, LLC

Uptime Solutions

Bronze

Allied Supply

BC&E Engineering

Contech Design

Patterson Equipment

Zimpher Sales



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**

