



[American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.](http://www.ashrae.org)

## ASHRAE

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Dayton Chapter  
PO Box 3202 Dayton, OH 45401  
<http://www.daytonashrae.org>



## Golf, Anyone?

May 13, 2010

Heatherwood Golf Course

1:00 Shotgun Start



**Foursomes still available! See page 9!**  
**Dinner Reservations are STILL AVAILABLE!**

6:30 PM

Dinner only—\$35

Heatherwoode Golf Club

88 Heatherwoode Circle

Springboro, OH

Reservations: [steve.fraley@danis.com](mailto:steve.fraley@danis.com)

Mark Your Calendars:

## 5th Annual Dayton Green Expo

### A Focus on Sustainability

August 5, 2010

PDH Hours Available!

.....  
**Next Board of Governors Meeting:**  
**May 20, 2010 at 8 AM at Heapy Engineering**  
**All are Welcome and Encouraged to Attend!**  
.....

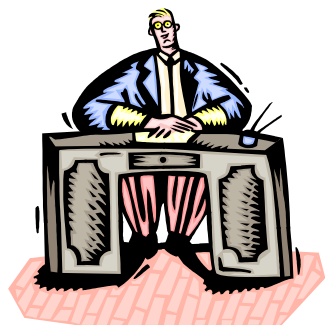


Raising Efficiency  
to New Levels

Albuquerque, New Mexico



June 26-30, 2010



## Presidential Ponderings

The April meeting concluded our regularly scheduled technical meetings for the year. I want to thank Ken Elrich and Mike Kirchens for working together to make

the joint meeting with IFMA and ASHRAE possible. Our scholarship committee has worked hard to put together the proposed chapter guidelines for scholarship recipients. I want to thank the committee, and especially the chair Frank Mauro, for their hard work in putting together the guidelines. In early May we will be conducting an online vote to approve the scholarship guidelines. When you receive an email about it please take a few minutes to review the guidelines and cast your vote. Our last event of the spring will be the May Golf Outing. Our golf committee has been hard at work getting hole sponsors, teams signed up, and collecting door prizes to raise money for ASHRAE research. There are still a few teams available, so if you are interested contact [steve.fraley@danis.com](mailto:steve.fraley@danis.com).  
Jeremy Fauber, PE

## Coming Events 2009/2010

**September 14, 2009**—Lunch—Young Engineers in ASHRAE - Primary-Secondary/ Variable primary chilled water control sequence.

**October 20, 2009**—Mini-ASHRAE Show and program, Sinclair Community College—Student night. Featured speaker: Tom Werkema, Science of Carbon Counting.

**November 9, 2009**—Dinner—Research Promotion Donor Recognition Night, Membership Promotion Night—Dessicant Dehumidification for Operating Room Applications

**December 14, 2009**—Lunch—Facility Insulation

**January 16, 2010** - Gourmet Dinner by Sinclair's Culinary Competition Team

**January 23-27, 2010**—ASHRAE Winter Meeting, Orlando, FL

**February 8, 2010**—Lunch— Single Pipe Geothermal Systems with Kirk Messer

**March 8, 2010**— Dinner—Energy Management in Buildings with Richard Pearson

**April 21, 2010**—ASHRAE Webcast, 1:00 PM

**April 28, 2010**—Lunch with IFMA

**May 13, 2010**—Golf Outing

**June 26-30, 2010**—ASHRAE Annual Meeting, Albuquerque, New Mexico

**August 5, 2010**—Dayton Green Expo at Heapy Engineering

**August 12-14, 2010**—Chapters Regional Conference—Cincinnati

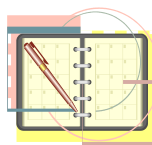


**Come to the next BOG meeting  
5/20/2010!**



**Research  
Promotion  
Donation!**

**Emerson Climate Technologies has donated \$5000 to ASHRAE Research! Be counted — get your company donation in before the June deadline!**



## Upcoming Board Meetings:

Meetings are held at 8 AM on the third Thursday of the month at Heapy Engineering. Bill's Donuts and fresh coffee are always available.

Next meetings:

May 20, 2010

June 17, 2010

July 15, 2010

## Research Promotion News

**Heading for the finish line this year—have you made your tax-deductible contribution yet? We need every dollar to make our annual RP goal! [Donation form page 5!](#)**





# Employers



## Have a Job to Fill?

Advertise in your Dayton ASHRAE Newsletter and on the Dayton ASHRAE Website.

Insert a business-card size ad for \$20 a month or \$100 a year.

All proceeds to Dayton ASHRAE Scholarship Fund.

Send ad copy to : [Lorraine.Kapka@Sinclair.edu](mailto:Lorraine.Kapka@Sinclair.edu)

# Dayton ASHRAE Members

## Need a Job?

Submit your profile to your Dayton ASHRAE Newsletter.

We'll print it for FREE!

Limited to 250 words plus contact information.

Send ad copy to : [Lorraine.Kapka@Sinclair.edu](mailto:Lorraine.Kapka@Sinclair.edu)

# Volunteers Needed

## Ready to Give Back to YOUR Industry?

Dayton ASHRAE needs members to work on next year's committees.

Contact Rick Pavlak, next year's President at:

[RPavlak@Heapy.com](mailto:RPavlak@Heapy.com)

## ASHRAE Learning Institute Spring 2010 Online Course Series

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

Phone: Call toll-free at 1-800-527-4723  
(US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar.  
Courses are in US Eastern Standard Time.



### Courses in May

District Cooling & Heating Systems: Central Plants  
Monday, May 3, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Requirements of ASHRAE Standard 62.1-2007  
Wednesday, May 5, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Understanding & Designing Dedicated Outside Air Systems (DOAS)  
Monday, May 10, 2010 – 1:00 p.m. to 4:00 p.m. EDT



## Standard 189.1 Training

The ASHRAE Learning Institute (ALI) is bringing *Standard 189.1-2009* training to a city near you.

Understanding Standard 189.1-2009 for High-Performance Green Buildings  
May 25, 2010 – 1:30pm – 4:30pm, San Francisco, CA

Understanding Standard 189.1-2009 for High-Performance Green Buildings  
June 2, 2010 – 1:00pm – 4:00pm, Arlington, TX

Implementing Standard 189.1-2009 for High-Performance Green Buildings  
June 10, 2010 – 8:00am – 4:00pm, Atlanta, GA

Implementing Standard 189.1-2009 for High-Performance Green Buildings  
June 28, 2010 – 8:00am – 4:00pm, Albuquerque, NM

Visit [www.ashrae.org/189.1courses](http://www.ashrae.org/189.1courses) for more information and to register

## Hot Products from ASHRAE

A leader in HVAC&R technology, ASHRAE publications cover topics that impact every facet of the environment, both indoors and out.

### Latest Publications from ASHRAE!

- Standard 189.1-2009, Standard for the Design of High-Performance Green Buildings* (A Jurisdictional Compliance Option of the IGCC)
- ASHRAE Handbook Online* – Web-Based access to all 4 volumes
- ASHRAE Pocket Guide* – Useful information that fits in a shirt pocket
- IAQ Guide: Best Practices for Design, Construction and Commissioning*
- Load Calculation Applications Manual (SI)*

### Other Products from ASHRAE!

- Energy Efficiency Guide for Existing Commercial Buildings*
- Dampers and Airflow Control*
- Advanced Energy Design Guide for Small Hospitals and Healthcare Facilities*
- Principles of Heating, Ventilating, and Air Conditioning* – Textbook based on the 2009 *ASHRAE Handbook - Fundamentals*

Visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) to learn more about these and other outstanding ASHRAE publications!

Order Today From ASHRAE Customer Service

1-800-527-4723 (US/Canada) or (404) 636-8400 (Worldwide)  
or visit: [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)

## ASHRAE Handbook ONLINE

- Access from any internet connection
- Search in seconds over 3,600 pages of important technical data
- Print, copy, and paste functionality
- Immediate access with your one-year subscription and no shipping fees

<http://handbook.ashrae.org>

## Renew Your Membership Online!

Visit [ashrae.org](http://ashrae.org)  
and  
Manage Your  
Membership





# 2009-2010 ASHRAE RESEARCH Dayton ASHRAE

## Contribution Form

Last year was a good year for the Dayton Chapter, but we can't let down now! With so much work to do to reach ambitious energy consumption reduction goals, more research is needed than ever before! You can help make the difference!

This industry gives all of us 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 future HVAC&R research and development.

Amount enclosed: \_\_\_ \$250 \_\_\_ \$150 \_\_\_ \$100 \_\_\_ \$50 \_\_\_ Other (specify) \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Member Number (If known): \_\_\_\_\_

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

**Way to Go!**



Albuquerque, New Mexico



June 26-30, 2010

## ASHRAE 2010 Annual Conference

Home to the breathtaking Sandia Mountains and to the world's largest hot air balloon festival, Albuquerque is the perfect place for ASHRAE to set its sights on Raising Efficiency to New Levels.

Join the Society as it builds on efforts to provide technical guidance to increase the efficiency of buildings and systems. From pending publication of the nation's first code-intended standard for green buildings to release of a new version of its energy conservation standard to expansion of the Building Energy Quotient program, the sky is the limit when it comes to energy efficiency.

The 2010 Annual Conference also offers you the opportunity to help take your career to the next level through a variety of educational courses and the technical program, which focuses on a wide-range of programs and papers addressing the energy efficient system design for high elevations and dry climates.

**Join ASHRAE as we move onward and upward to improve energy use around the world.**

### Technical Program

With a focus on energy efficiency system design for high elevations and dry climates, this year's Annual Conference features more market-based papers and programs than in previous technology-driven ASHRAE conferences. In addition, the conference includes traditional full-length Technical Papers as well as a new Conference Paper format. Preliminary program submissions include energy efficient design and operation of data centers, central chilled water plant innovations, and latest research on refrigeration system and components and design applications for sustainable buildings.

**The technical program is organized along the following tracks:**

- **Track 1 What Is Sustainable Anyway?**
- **Track 2 Energy Facts and Simulation**
- **Track 3 Ventilation Systems**
- **Track 4 Refrigeration for the Future**
- **Track 5 Central Plant Systems**
- **Track 6 BIM/CAD/Paper and Pencils**
- **Track 7 Energy Conservation vs. New Generation**
- **Track 8 Living with HVAC&R Systems**
- **Track 9 High Efficiency HVAC Systems**
- **Track 10 Professional Skills**
- **Track 11 Data Center and High Density Cooling**

The complete technical program will be available online in mid-March and published in April Insights.



For Release:  
Contact:  
678-539-1216

April 7, 2010  
Public Relations  
Amanda Dean

[adean@ashrae.org](mailto:adean@ashrae.org)

## **ASHRAE Research: Laboratory Test of Five Non-Chemical Devices Used in Cooling Towers Showed No Effectiveness in Preventing Biological Growth**

ATLANTA New research supported by ASHRAE indicates that non-chemical devices (NCD) marketed to control the growth of biological agents, such as Legionella in cooling towers, may not materially reduce biological growth.

Research project No. 1361, *Biological Control in Cooling Towers Using Non-Chemical Water Treatment Devices*, a two-year project recently completed by Dr. Radisav Vidic at the University of Pittsburgh, evaluated five non-chemical devices using different technologies to control biological activity in a model cooling-tower system. The devices studied included a hydrodynamic cavitation device, pulsed and static electric field devices, an ultra-sonic device and a magnetic device.

In Dr. Vidics research, none of the non-chemical devices measurably reduced planktonic or sessile microbial populations in comparison to no-treatment tests and to a conventional chemical microbial control treatment protocol. The findings appear to be inconsistent with previous research by non-chemical device manufacturers and some independent researchers on some of the same devices tested in the ASHRAE study. Those other studies reported measurable degrees of biological control within the parameters of testing conducted.

These results suggest that equipment operators, building owners and engineers should consider taking more frequent water sample tests for their systems that rely on NCDs for biological control. If the testing shows an issue, one possible measure is to add chemical treatment capability to their system to prevent a potential health hazard from developing until additional research and field testing can resolve this question, according to Dr. Vidic .

The study results are still subject to final approval by the sponsoring technical committee, TC 3.6 Water Treatment. ASHRAE anticipates formal approval and the release of the final report for this project at its 2010 Annual Meeting Conference in June. For notice of when the report is available, please contact Mike Vaughn, Manager of Research and Technical Services, at [mvaughn@ashrae.org](mailto:mvaughn@ashrae.org).

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The Official Jobs Board for the American Society of  
Heating, Refrigerating and Air-Conditioning Engineers

Welcome to [ASHRAEJobs.com](http://ASHRAEJobs.com)  
Your source for HVACR Engineering Careers



**ASHRAE jobs**



**Dayton Chapter ASHRAE**  
<http://www.daytonashrae.org>  
**Membership Application and Roster Information 2009-2010**

\_\_\_\_\_  
**Your Name**

\_\_\_\_\_  
**Home Address**

\_\_\_\_\_  
**City**                      **State**                      **Zip**

(    )                      -                      \_\_\_\_\_  
**Home Phone**                      **Spouse Name**

\_\_\_\_\_  
**Home e-mail address**

\_\_\_\_\_  
**Your Company Name**

\_\_\_\_\_  
**Business Address**

\_\_\_\_\_  
**City**                      **State**                      **Zip**

(    )                      -                      \_\_\_\_\_  
**Business Phone**                      **Ext.**                      **Fax Number**

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

*Dayton Chapter ASHRAE dues for the Society year beginning July 1, 2009 and ending June 30, 2010 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!**



*Join Us!*  
*May 13, 2010*

## **ASHRAE GOLF OUTING**

*Heatherwood Golf Course*

*Springboro, Ohio*

*Shotgun Start @ 1:00 PM*

*Before May 1, 2010*

*Dinner and Golf \$90 per Player*

*Dinner Only \$30 per Person*

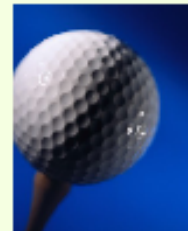
*May 1st—May 10th*

*Dinner and Golf \$110 per Player*

*Dinner Only \$35 per Person*

### **REMINDER**

**Proceeds go to  
ASHRAE'S  
Research Program**



*RSVP Attached Sign Up Sheet to:*  
[steve.fraley@danis.com](mailto:steve.fraley@danis.com)