



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

## **ASHRAE**

### **2009-2010 OFFICERS**

#### **President**

Jeremy Fauber 224-0861  
Heapy Engineering  
[jpfauber@heapy.com](mailto:jpfauber@heapy.com)

#### **President-Elect**

Rick Pavlak 224-0861  
Heapy Engineering  
[rpavlak@heapy.com](mailto:rpavlak@heapy.com)

#### **Secretary (Acting)**

Jason Gillespie (513) 475-3811  
Elitaire  
[jgillespie@elitaire.com](mailto:jgillespie@elitaire.com)

#### **Treasurer**

Steven N. Meier 573-3072  
Wat-Kem Mechanical  
[smeier@watkem.com](mailto:smeier@watkem.com)

### **Committee Chairs**

#### **Membership**

Gordon Schweitzer  
Heapy Engineering  
[GDSchweitzer@heapy.com](mailto:GDSchweitzer@heapy.com)

#### **History**

Tom Ferdelman 224-0861  
Heapy Engineering  
[ferdelman@sbcglobal.net](mailto:ferdelman@sbcglobal.net)

#### **Newsletter Editor**

Lorraine Kapka 512-4501  
Sinclair Community College  
[Lorraine.Kapka@Sinclair.edu](mailto:Lorraine.Kapka@Sinclair.edu)

#### **Research Promotion**

Dennis Lammlein 859-6323x147  
Signature Technologies  
[dlammlein@woh.rr.com](mailto:dlammlein@woh.rr.com)

#### **Student Activities**

Russell Marcks 512-2053  
Sinclair College  
[Russell.Marcks@sinclair.edu](mailto:Russell.Marcks@sinclair.edu)

#### **CTTC**

Mike Kirchens 513-475-3807 or  
937-776-7304  
Elitaire  
[mkirchens@elitaire.com](mailto:mkirchens@elitaire.com)

#### **Board of Governors**

Greg Cohron 513-673-6664  
Ramsay-Cohron  
[gcohron@rcme.com](mailto:gcohron@rcme.com)

#### **Board of Governors**

Frank Mauro 224-0861  
Heapy Engineering  
[famauro@heapy.com](mailto:famauro@heapy.com)

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

# **April Lunch Meeting**

## **NOTE DAY, DATE AND LOCATION CHANGE!**

**Wednesday, April 28th**

**"The Regional Strategy for "Growing the Dayton Region"**

**Need water for your daily operations?  
The Dayton Region is H2Open for Business**

**Maureen Patterson**

Vice President, Stakeholder Relations, Dayton Development Coalition  
Page 3 for program details and Maureen's biography.

**11:30 AM**

**Kohlers Banquet Center  
4572 Presidential Way  
Kettering, OH**

**Paid members: Free  
Guests: \$20 at the door**

**RSVP: For reservations contact Jeremy Fauber at Heapy Engineering,  
[jpfauber@heapy.com](mailto:jpfauber@heapy.com) or 224-0861 no later than noon **Tuesday, April 20th.****

**ASHRAE Webcast Wednesday, April 21—see inside for details**

**Next Board of Governors Meeting:**

**April 15, 8 AM  
Heapy Engineering**

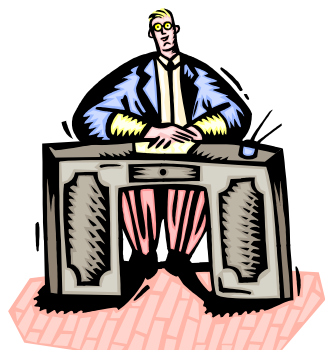


**Raising Efficiency  
to New Levels**

**Albuquerque, New Mexico**



**June 26-30, 2010**



## Presidential Ponderings

I hope you enjoyed the March meeting on energy management. The presentation by distinguished lecturer Dick Pearson illustrates the power of simple ideas. His presentation is available on the Dayton ASHRAE website; I encourage you to download it for review.

April brings the opportunity for two meetings. April 21<sup>st</sup> is the ASHRAE webcast on "Commissioning for High Performing Buildings". The ASHRAE webcast is always one of the most informative programs of the year and is worth up to 3 PDHs. Please take the time to attend. See **page 6** for more information.

Our regular meeting will be later in the month and is a joint meeting with the local IFMA chapter. This meeting will inform our members about what the Dayton Development Coalition is doing to bring business to the local area. It will also be a great opportunity to meet some new faces. Please come and join Dayton ASHRAE and IFMA on April 28<sup>th</sup>.

April 15<sup>th</sup> is the last day for early bird sign-up for the ASHRAE annual meeting in Albuquerque, New Mexico. The annual meetings are a great opportunity to earn PDHs, join a technical committee and meet members of ASHRAE from around the world. Please consider adding the meeting to your summer.

Don't forget to sign up for the golf outing, scheduled for May 13<sup>th</sup> at Heatherwood. Last year we turned teams away, so get yours registered early. See **page 11** for details.

Congratulations to next year's slate of officers; thanks to all who step up to offer their leadership and service to the Dayton chapter. They are: Rick Pavlak, President; Steven Meier, President-Elect; Jason Gillespie, Treasurer; Gordon Schweitzer, Secretary. Governors At-large are: Greg Cohron, Frank Mauro and Lorraine Kapka. I know you will support them in the same way you have supported me.

Jeremy Fauber, PE

**Come to the next BOG meeting  
4/15/2010!**



**HELP WANTED!**  
**Applications Engineer**  
Location: Sidney, OH

Apply on-line at [www.EmersonClimate.com](http://www.EmersonClimate.com)  
Reference: Job SMKA 10 035  
Contact: [Tom.Fesenmyer@Emerson.com](mailto:Tom.Fesenmyer@Emerson.com)

## 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

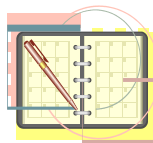
**April 21, 2010**—ASHRAE Webcast, 1:00 PM

**April 28, 2010**—Lunch with IFMA

**May 13, 2010**—Golf Outing

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

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



## 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:**

April 15, 2010

May 20, 2010

June 17, 2010

## Research Promotion News

Finishing your taxes? Want to send Uncle Sam less next year? Make a contribution to ASHRAE Research—cut your tax bill and support our industry at the same time. What a great deal!



Getting a tax refund? Give part of it to ASHRAE Research and decrease your taxes even more next year!

**Donation form on page 7!**

**May 13 Golf—Sign-up form on page 11!**

# "The Regional Strategy for "Growing the Dayton Region"

Come and learn what the Dayton Development Coalition is Doing to Bring New Business to The Dayton Region

## Need water for your daily operations?

### The Dayton Region is H2Open for Business

There's good news about water in Dayton. Located in southwest Ohio, the Dayton Region is drought-free and welcomes water-intensive businesses and industries to share its abundant water resources. Rivers and streams readily recharge the groundwater supplies within the aquifer, making this groundwater a truly "renewable" resource. In fact, the public water supply systems in the Region have excess capacity. Readily available water is so expansive that the Region is able to tap the aquifer for geothermal systems to cost-effectively heat and cool buildings. This not only offers your business another economic advantage, but also reduces greenhouse gas emissions.

The spring 2009 Seasonal Drought Outlook from the National Oceanic and Atmospheric Administration brings continuing bleak news to many states. Droughts will continue to impact states across the country from North Carolina to California; droughts in Texas, New Mexico, Nevada, Georgia and Alabama are expected to persist. But the Dayton Region has more than 6,000 miles of rivers and streams to recharge a vast, 1.5 trillion gallon buried valley aquifer.

#### **ABUNDANT AND RENEWABLE**

Many factors have created this water-rich environment, and these factors will sustain the water supply while many areas of the nation continue to struggle. The Dayton Region aquifer system consists of highly permeable sand and gravel deposits that store a huge quantity of groundwater. The aquifer underlies the permeable river and streambeds, creating plenty of opportunity for surface water and precipitation to recharge the groundwater. Proper protection measures ensure that the aquifer is available as a long-term, healthy fresh water supply.

#### **Our Value Proposition, Your Business Opportunity:**

- Total aquifer storage of approximately 1.5 trillion gallons of groundwater.
- Principal drinking water source for an estimated 1.7 million people.
- Award-winning source water protection programs and sole source aquifer designation by the U.S. Environmental Protection Agency.
- Yields in excess of 2,000 gallons of water per minute are routinely achieved.
- Much of the groundwater maintains a constant temperature of 56 degrees Fahrenheit, providing a valuable source of geothermal energy that can reduce heating and cooling costs. In fact, the surface water is so abundant and of such high quality that people travel from surrounding states to experience the Region's sport fishing excitement and to ply the waters by canoe and kayak. Bike trails also follow the rivers and provide land-lovers with a drier recreation option.
- Enjoy world-class trout and smallmouth bass fishing via the many public launch points for power boats or canoes and kayaks.
- Bring your bike, jogging shoes or rollerblades and enjoy more than 300 miles of paved trails.

Beyond the GREAT CORRIDOR, you will find another 6,400 miles of perennial rivers and streams in the Great Miami River Watershed. Major tributaries to the Great Miami River include the Stillwater and Mad rivers and Twin and Wolf creeks. The Dayton Region offers a sustainable source for the world's most important resource-water. We invite you to Get Midwest and discover the opportunity.

**Maureen Patterson** is the Vice President Stakeholder Relations for the Dayton Development Coalition, the economic development and advocacy organization for the 13 county Dayton region whose mission is to support job creation and prosperity for the citizens of the Dayton Region. She served for almost 12 years as the Vice President, Member Relations for the Dayton Area Chamber of Commerce. She also served as the Executive Director for the Kettering/Moraine/Oakwood Area Chamber of Commerce and Executive Vice President for Fitzpatrick/Patterson Realty Inc.

Patterson currently serves as the Chair for the Montgomery County Human Service Levy Council, Executive Committee member for the Montgomery County Family & Children First Council, Board member for the Community Blood Center/Community Tissue Services Foundation and Board member for Dayton/Montgomery County Convention & Visitors Bureau. She previously served as a trustee for the Kettering Medical Center Network, the Metro board for the YMCA of Greater Dayton and the YWCA of Dayton. She served as the Secretary for the Miami Valley Military Affairs Association and was a member of the, Associate Board for the Dayton Art Institute. Maureen also served on the Kettering Charter Review Committee and the Kettering City Schools Strategic Planning Team.



# 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.



Introduction to Thermal Energy Storage Systems for A/C  
Wednesday, April 7, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Using Standard 90.1 to Meet LEED Requirements  
Monday, April 28, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Standard 90.1-2007: HVAC/Mechanical  
Monday, April 12, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Introduction to Cleanroom Design  
Wednesday, April 28, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Energy Management in New & Existing Buildings: A Sustainable Activity  
Wednesday, April 14, 2010 – 1:00 p.m. to 4:00 p.m. EDT

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

Complying with Standard 90.1-2007: Envelope/Lighting  
Monday, April 19, 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



ASHRAE  
LEARNING INSTITUTE

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

## 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*

### Other Products from ASHRAE!

- Energy Efficiency Guide for Existing Commercial Buildings*
- Dampers and Airflow Control*
- Building Information Modeling Guide*
- 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)



**Renew  
Your  
Membership  
Online!**

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



# Right from the Start – Commissioning for High Performing Buildings

**April 21, 2010**

**1:00 – 4:00 P.M. EDT**

**Sinclair Community College**

**14-130**



**Snacks and Drinks at 12:45**



Hear from leading commissioning experts about how commissioning supports a smoother construction process, maximizes energy and cost reductions, and provides a facility that operates as intended. This program will define the “what, why, when, and who” of the commissioning process and provide you with tools to commission your high performing building.

**Easy parking under Building 12 (\$2 parking passes available at the webcast—please bring exact change).**

This free webcast is sponsored by the ASHRAE Chapter Technology Transfer Committee with support from ASHRAE’s [High Performing Buildings Magazine](#).





# 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





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: Jodi Scott  
678-539-1140  
Amanda Dean

March 11, 2010  
Public Relations  
[jscott@ashrae.org](mailto:jscott@ashrae.org)  
[adean@ashrae.org](mailto:adean@ashrae.org)

*First of its kind collaboration designed to boost critical green building practices across the country.*  
**ICC, ASHRAE, USGBC and IES Announce Nation's First Set of Model Codes and Standards for Green**

**Building in the U.S.**

ATLANTA – The International Code Council (ICC), the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the U.S. Green Building Council (USGBC), and the Illuminating Engineering Society of North America (IES) today announce the launch of the International Green Construction Code (IGCC), representing the merger of two national efforts to develop adoptable and enforceable green building codes. The IGCC provides the building industry with language that both broadens and strengthens building codes in a way that will accelerate the construction of high performance green buildings across the U.S. For decades, ICC and ASHRAE have worked to develop codes and standards that become the industry standard of care for the design, construction, operations and maintenance of residential and commercial buildings in the U.S. and internationally. In coordination with the efforts of ICC and ASHRAE, USGBC has been leading a nationwide green building movement centered on the LEED Green Building Rating System since LEED was launched in 2000. The convergence of these efforts in the IGCC is perhaps the most significant development in the buildings industry in the past 10 years.

Leveraging ICC's unrivaled delivery infrastructure to reach all 50 states and more than 22,000 local jurisdictions and ASHRAE, USGBC and IES's technical strengths, this partnership will accelerate the proliferation of green building codes and standards developed jointly by ICC, ASHRAE and USGBC and IES, across the country and around the globe. The newly launched International Green Construction Code (IGCC) establishes a previously unimaginable regulatory framework for the construction of high performance commercial buildings that are safe, sustainable and by the book.

A landmark addition to the technical content of the IGCC is the inclusion of ANSI/ASHRAE/USGBC/IES Standard 189.1, *Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings*, as an alternate path of compliance. Standard 189.1 is a set of technically rigorous requirements, which like the IGCC, covers criteria including water use efficiency, indoor environmental quality, energy efficiency, materials and resource use, and the building's impact on its site and its community. Standard 189.1 was written by experts representing all areas of the building industry, who contributed tens of thousands of man hours. Developed in a little over three years, the standard underwent four public reviews in which some 2,500 comments were received.

"The emergence of green building codes and standards is an important next step for the green building movement, establishing a much-needed set of baseline regulations for green buildings that is adoptable, usable and enforceable by jurisdictions," said ICC Chief Executive Officer Richard P. Weiland. "The IGCC provides a vehicle for jurisdictions to regulate green for the design and performance of new and renovated buildings in a manner that is integrated with existing codes as an overlay, allowing all new buildings to reap the rewards of improved design and construction practices."

"Bringing together the code expertise of ICC with technical expertise of ASHRAE to create a comprehensive green building code will accelerate our transformation to more sustainable building practices," Gordon Holness, ASHRAE president, said. "ASHRAE is committed to providing the design guidance building designers and engineers need to reduce the energy consumption of buildings."

"The U.S. Green Building Council's mission is market transformation and we've long recognized the need to reach beyond the market leaders served by LEED to accomplish this goal," said Rick Fedrizzi, President, CEO and Founding Chairman of the U.S. Green Building Council. "Broadening the scope of the codes and establishing a higher floor allows us to continue to raise the ceiling, a critical factor in how the building industry is working to mitigate climate change. We are thrilled to see this set of complementary green building codes and standards; our organizations working collaboratively will advance green building nationwide in a way that was never before possible."

"IES is pleased to support the collaborative efforts of the organizations which demonstrate expertise in code and technical standards development in this comprehensive green building code," said Rita Harrold, IES Director of Technology. "IES looks forward to ongoing guidance for sustainable building practices."

On Monday, March 15, ASHRAE, IES and USGBC will join ICC at its Washington, DC headquarters as they and their co-authors (the American Institute of Architects and the American Society for Testing Materials) launch the IGCC. On Monday, Standard 189.1 and the IGCC will be available for wide distribution, providing much-needed content, code language, and vision for more safe and sustainable future. The organizations are also working together to advance related education and advocacy efforts to promote adoption, enforcement and compliance with the IGCC codes that will pave the way for green buildings and neighborhoods, while creating jobs and strengthening the economy. For more information on IGCC: <http://www.intlcode.org/cs/IGCC/Pages/default.aspx> and on Standard 189.1: [www.ashrae.org/greenstandard](http://www.ashrae.org/greenstandard).



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!**