



# ASHRAE LOUISVILLE CHAPTER NEWS

American Society of Heating, Refrigeration and Air Conditioning Engineers  
Serving the commonwealth for 45 years.

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## BENEFITS OF VFD MOTOR CONTROL

**Monday, October 2, 2006**  
**Dinner Meeting**

### ABSTRACT

Benefits of using variable speed control in HVAC applications include acoustical noise reduction, environmental (humidity, temperature or pressure) regulation, greater product reliability, increased equipment life, improved safety and energy savings.

### SPEAKER

Ron Ray is a Territory Manager for ABB. Ron is a graduate of Purdue University, in West Lafayette, IN. Ron started his career with Dodge Division of Reliance Electric in Chicago, IL. He then went to work for an industrial distributor in Chicago. This distributor is also a systems integrator and panel builder, along with being a motor repair shop and electrical contractor. This product & service offering provided Ron with much field experience with electrical and mechanical products and applications. Ron started as sales engineer and grew into a sales management position.

In 1984 Ron and his family returned "home" to Indianapolis, IN. Ron incorporated Ronald Ray & Associates, Inc. in 1985 as an industrial, commercial and HVAC manufacturer's representative firm selling AC Motors, AC & DC Variable Speed Drives, AC motor control and other related electrical items. Ron is responsible for not only working with customers, consultants, ABB distributors/ reps and contractors in the specification and application of ABB VFDs, but he is also responsible for assisting with start-up and servicing of the VFDS.

Ron has been giving presentations to various ASHRAE chapters since 1986.

### MEETING LOCATION:

**The University of Louisville Alumni Club from 5:30 until 8:00 pm.**

The cost for attending is \$25.00, cash or check (made payable to ASHRAE). Students and university faculty may attend for \$5.00. Due to our current arrangements with the University Club, reservations are not cancelable after 5:00 PM Thursday prior to the meeting date. We want to encourage attendance, but emphasize the importance of notifying the treasurer if plans to attend have changed. Your consideration will help avoid meeting fee increases to offset losses associated with extra meal preparation.

It is extremely important to make your reservation no later than Wednesday, September 27th with Julian Donahue by simply using one of the following three options: 1) Calling (502) 569-3600 x 2422 2) E-mail [jdonahue@lwcky.com](mailto:jdonahue@lwcky.com).

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**VISIT THE LOUISVILLE CHAPTER ON THE WEB!**

<http://www.ashraeregion7.org/louisville/index.html>

## **UPCOMING EVENTS/PROGRAMS:**

Below is a list of upcoming meetings and events for 2006. Please mark your calendars:

November 6 – Lunch meeting at the U of L Alumni Club  
December 2 – Christmas Party, location TBA  
January 8 – Dinner meeting at the U of L Alumni Club  
February 5 – Lunch meeting at the U of L Alumni Club  
March 3 – Engineers' Day at University of Louisville  
March 5 – Joint Dinner meeting with ASME and Student Presentations in the Vogt Building at U of L  
April 2 – Lunch meeting at the U of L Alumni Club  
May 14 – Golf outing, location TBA

## **SEPTEMBER MEETING REVIEW**

At our September meeting, Luke Powell, Programs Chair, conducted a survey of possible future presentation topics. Response was good and the remaining programs this year will reflect the outcome of the survey. After lunch at the Alumni Club, we walked (through the rain) across campus and toured the new, state of the art, Ralph Wright Natatorium at the University of Louisville. Mr. Steve Robinson of Mechanical Services, and Mr. Mike Zehnder, the Aquatics Director & Diving Coach at the University of Louisville led the tour. The 38 meeting attendees were shown the many unique features of the facility, including the water pumping/heating systems, water purification systems, and the large, built-up Air Handler with heat recovery that serves the building.

## **ASHRAE LOOKS AT MAKING ASHRAE HANDBOOK MORE "SUSTAINABLE"**

**ATLANTA** - To help engineers respond to environmental challenges, ASHRAE is working to ensure guidance on sustainable design is incorporated in its Handbook.

ASHRAE is conducting a review of the sustainability content of all Handbook chapters and is looking at writing a new chapter on sustainability with a view toward integrated building design in its Fundamentals volume.

"While the word 'sustainability' only recently entered the vocabulary of ASHRAE, the Society was involved with sustainable building and HVAC equipment design long before the term was coined," Norm Maxwell, P.E., chair of the Handbook Committee, said.

He noted that ASHRAE has funded research for decades to allow builders and manufacturers to design and build higher efficiency buildings, HVAC systems, and refrigeration equipment.

In addition to designing systems that will save energy and therefore operating costs, sustainability requires design professionals to take into account the length of service of the equipment that is proposed, he said. The end result must be a total building concept that will not have to be replaced quickly and have a long service life.

Since the 1970s, ASHRAE has been active in renewable technologies for application in buildings. Through development of standards, such as ASHRAE 90 that dates back to the 1970s, ASHRAE has been in the forefront of the design of low energy use buildings.

"Given the current interest in sustainable buildings and technologies and ASHRAE's long history with high efficiency buildings and HVAC&R systems, it is appropriate that design guidance related to sustainability be incorporated in the ASHRAE Handbook," he said.

The ASHRAE Handbook is the most widely used reference book in the HVAC&R industry for system design, application and equipment operation and maintenance.

To give feedback on incorporating sustainable design guidance in the ASHRAE Handbook, visit the "comment on the Handbook section" at <http://www.ashrae.org/handbook>.