



# ASHRAE LOUISVILLE CHAPTER NEWS

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

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**Date: October 24, 2005**

## TEMPERATURE CONTROLS

**Mr. Larry J. Fisher, ASHRAE Member  
ECT Services, Louisville**

**Monday, November 7, 2005  
Lunch Meeting**

### ABSTRACT:

Temperature controls today can range from stand alone conventional HVAC controls to fully integrated direct digital controls (DDC) with web access. The discussion will center around the past, present and future of temperature controls. The following items will be addressed: the ASHRAE influence (Standards 90.1 – 2004, 62.2 – 2004 and BACnet), USGBC with focus on LEED-NC and LEED-EB, integration opportunities (fire alarm and security), information management, technology LANs, the HVAC design influence and pros/cons of competing in the global marketplace.

### SPEAKER:

Mr. Fisher is the President of ECT Services in Louisville, Kentucky.

He is also a long-standing and distinguished ASHRAE member. Mr. Fisher has held numerous chapter and regional offices and was President of the Louisville ASHRAE chapter in 1992. Currently, he is the Chairman of Society Publishing Committee and chapter Historian. He is also a voting member on the Society's technical committee, TC1.4 (Controls Theory and Operations) and a member of the new "Green Controls" Subcommittee.

He extends an invitation to the Winter ASHRAE meeting in Chicago to hear him speak on "Control Contractor's Responsibilities in LEED Certification" on Monday, January 23, 2006 at 8am.

### MEETING LOCATION:

**The University of Louisville Alumni Club from 11:30 until 1 pm.**

The cost for attending is \$15.00, cash or check (made payable to ASHRAE). Students and university faculty may attend for \$5. Due to our current arrangements with the University Club, reservations are not cancelable after 5:00 PM on the Thursday prior to the meeting date. We want to encourage attendance, but also emphasize the importance of notifying the treasurer if your plans to attend have changed. Your consideration will help avoid meeting fee increases to offset the losses associated with extra meal preparation.

It is extremely important to make your reservation no later than **Wednesday, November 2<sup>nd</sup>** with Julian Donahue by simply using one of the following three options: 1) Calling 502-633-1506 2) Forwarding the form shown below this paragraph, by fax to 502-633-2222 or 3) E-mail [Donahue@bcclt.com](mailto:Donahue@bcclt.com).

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

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

Reservation form

Attendee(s)

Number

Name(s)

Number	Name(s)
_____	_____
_____	_____
_____	_____

**OCTOBER MEETING REVIEW**

In our October meeting, Ray Beaufait discussed membership incentives. Joe Nitzken asked members to provide input concerning a Roster and indicated the Christmas Party will be at the Jefferson Club with members paying their cost and chapter paying the "guest" cost. Matt Hargan present 50 year awards to Bob Logsdon & Leonard O'Dell.

We had a special guest, Art Hallstrom who discussed activities at the Region and Society levels. Examples included an ASHRAE first with Certification Hospital Engineers. Also the hot topics currently: Mold and mildew; CO<sub>2</sub> trading (5 billion/yr now in Canada); and Energy – ASHRAE 62 and 90.1– Standards written for code official. Art recognized local members who are volunteering at Regional Level Committees: Ken Peet, Larry Fisher, Matt Hargan, Ed Dusch. Art also presented an award to Leonard O'Dell for his position as Regional Historian.

The meeting included a panel discussion concerning "Plan/Spec/Bid" versus "Design/Build". Also, additional methods of construction discussed included Construction Management (advisor) and Construction Management (At Risk). Four panel members answered questions from the members for approximately an hour and a half. A summary statement might conclude that no mater what method of construction chosen, the owner needs to be sophisticated enough to understand each method of construction, risks/benefits of each method, and the effect of value engineering.

**UPCOMING EVENTS/PROGRAMS:**

Below is a list of upcoming meetings and events for 2005 and 2006. Please mark your calendars:

- December 3 – Christmas Party TBA
- January 9 – Government and Economic Incentives for Green Building Design (Dinner at U of L Alumni Club)
- February 4 – Engineers' Day
- February 6 – Hot Gas Bypass Versus Hot Gas Reheat - The Difference; When to Apply Each (Lunch at U of L Alumni Club)
- March 6 – Student Presentations – Joint Meeting with ASME (Dinner at U of L Vogt Building)
- April 3 – Humidity Control (Lunch at U of L Alumni Club)
- April 19 – CTTC Broadcast
- May 15 – Golf Outing

## **ASHRAE RESEARCH PROMOTION AWARDS:**

The 2006 Campaign to raise funds for ASHRAE sponsored research will kickoff in November.

Please attend the November 7<sup>th</sup> lunch meeting where the following individual members and companies will be recognized and receive awards for their generous contributions to last year's Research fund drive.

### \$1000 or more

Louisville ASHRAE Chapter

### \$500 or more

York International

Airguard Industries

### \$250 or more

Harshaw Trane

Environmental Safety Technologies

Frank Harshaw

LSE Engineering

### \$200 or more

Kenneth Peet

Rademaker Corporation

### \$150 or more

Larry Fisher

Vitok Engineers

Johnson Controls

### \$100 or more

Brent Caswell

Matt Hargan

Raymond Beaufait

Julian Donahue

Dennis Skees

Joseph Nitzken

Raymond Thornton

Edward Dusch

## **MESSAGE FROM THE CHAPTER PRESIDENT**

By Ray Beaufait

The 2005-2006 year is off to a great start! Attendance is up over last year, with 31 people at the September meeting and 51 people at the October meeting. I would like to thank each of you for attending and contributing to this great beginning. I hope the programs are meeting your needs and that this high level of attendance continues.

As most of you should be aware, I have been promoting membership growth. Over the last several years, total ASHRAE membership has declined approximately 15% overall from the year 2000. You may ask yourself "Why join ASHRAE"? Did you know that in a Market Research Study where people were asked what made ASHRAE unique, 93% of our members and 67% of non-members felt that ASHRAE was the *first* and *best* source of technical information. This technical information comes from research projects and volunteers like you. ASHRAE Vice President Tom Phoenix said it best: "ASHRAE benefits from **You** and you benefit from **ASHRAE**".

This month is Research Promotion month. At the September CRC, the results of last year were published. The total contribution for the Chapter was approximately \$5,000, or around \$26 per member. The average contribution for Region VII was around \$39 per member. The Society's goal for research contributions is to exceed the needs of the Research Projects. The current goal for our region is around \$95,000, or approximately \$48 per member. I would like to challenge our membership to increase our contributions to over \$60 per member. The Louisville Chapter routinely receives the Full Circle Award, which requires Officers on the Board to contribute \$100 each. Where do the research dollars go? Region VII has several research projects totaling almost \$500,000; a \$100,000 project is currently at the University of Kentucky.

At the October meeting, Joe mentioned the idea of creating a Chapter Roster. This roster would contain membership information, past presidents, some history, etc. With this roster, we would like to include advertising. The cost of the space is still to be determined. If you are interested, please contact Joe or me.

## **ASHRAE IMPLEMENTS NEW PROCESS TO UPDATE CODE-INTENDED STANDARDS**

ATLANTA - As part of ongoing efforts to increase use of its standards, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has announced a major change to availability of addenda to code-intended standards. The move puts ASHRAE in line with issuance of model building codes.

In the past, addenda for code-intended standards on continuous maintenance were posted individually on ASHRAE.org after being approved by the Board of Directors for publication. Now, Board-approved addenda to code-intended standards will be published in a supplement. The supplements for each standard will be published on a regular schedule halfway between the three-year publication of each standard. The addenda also will be incorporated into each standard when it is reissued after its last publication.

Richard Hermans, P.E., chair of ASHRAE's Standards Committee, acknowledges the change is significant.

"Our whole approach to how we relate to the building code industry is changing," Hermans said. "We are seeking more involvement with the model code development community to assist us in our code proposals. We are responding to member concerns over the cost of keeping up with our code-intended standards. By cost, I am not referring to the dollars spent for obtaining the updated documents but rather the cost in time to train employees about the new requirements contained in addenda. And we are aligning our release of certain standards to coincide with the model code schedules for code change proposals."

All of these actions point to a policy of releasing addenda on a predictable schedule spaced out over years, he said. "In this way, we will develop our code-intended standards in the same way that groups such as the International Code Council and the National Fire Protection Association, both of which incorporate ASHRAE standards, maintain their model codes," he said.

The change applies only to code-intended standards that are on continuous maintenance. These are:

- \*Standard 15, Safety Standard for Refrigeration Systems;
- \*Standard 34, Designation and Safety Classification of Refrigerants;
- \*Standard 52.2, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size;
- \*Standard 62.1, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, Industrial and High-Rise Residential Buildings;
- \*Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings;
- \*Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings;
- \*Standard 90.2, Energy Efficient Design of Low-Rise Residential Buildings;
- \*Standard 140, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs.

The first supplements for standards published will be available in March 2006.

For more information on ASHRAE's work in standards, visit [www.ashrae.org/standards](http://www.ashrae.org/standards).

## **SUSTAINABILITY TOPIC OF ASHRAE SATELLITE BROADCAST**

ATLANTA - A satellite broadcast is being offered by ASHRAE to fulfill its goal of promoting building sustainability as a means to provide a safe, healthy, comfortable environment while simultaneously limiting the impact on the Earth's natural resources.

Information about building sustainability principles, practices and emerging concepts will be presented in the free April 19, 2006, satellite broadcast and Webcast, Sustainability and the Building Environment. The program is sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

"This broadcast will benefit all of the team members involved in the design, construction, start-up, and operation phases of a facility," said Jon Christopher Larry, chair of CTTC. "Viewers will be given information and sources to assist them when they are faced with the situation where a green design must be done. The green building industry will also benefit from the engineering input from ASHRAE."

The speakers for the broadcast will provide guidance on how to practice green building design. They are: Joe Van Belleghem, president, BuildGreen Developments, Victoria, Canada; Hal Levin, Fellow ASHRAE, research architect, Building Ecology Research Group, Santa Cruz, Calif.; Jean Lupinacci, director, ENERGY STAR commercial and industrial branch, Climate Protection Partnerships Division, U.S. Environmental Protection Agency; Kevin Hydes, P.E., P.Eng., president and CEO, Keen Engineering, Montreal, Canada; and Malcolm Lewis, Ph.D., P.E., president, CTG Energetics, Irvine, Calif.

The broadcast will be similar to the April 2005 Mold in the Building Environment Broadcast/Webcast viewed by some 16,000 viewers at 1,700 locations.

## **'06 ASHRAE WINTER MEETING - USING INTEGRATED DESIGN TO ACHIEVE SUSTAINABILITY**

ATLANTA - In designing buildings, professionals should work together to determine points of integration between various building systems, architecture and the environment.

Only when this integrated design is achieved will buildings become truly sustainable, according to Kirk Mescher, chair of ASHRAE's Program Committee.

Several sessions relating to integrated or sustainable design will be presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers' 2006 Winter Meeting, Jan. 21-25, Chicago, at the Palmer House Hilton. One hundred and four sessions will be presented as part of the technical program. The complete technical program can be found at [www.ashrae.org/chicago](http://www.ashrae.org/chicago).

Integrated design is an all-encompassing design strategy that should integrate architecture, engineering, building use, location and utilities into a building form that meets or exceeds the requirements of the integrated components, according to Mescher.

"Green building design has grabbed headlines," he said. "As a subcomponent of integrated building design, green building design has become the marketing measure of forward thinking for engineering professionals. As a minimum, design teams should be asking: 'Why can a building not recognize when the occupants arrive and turn on the necessary building functions to support occupants? Can the heating and cooling system be integrated with the building architecture to minimize the need for mechanical support? Can the building control system be integrated with communication, alarm, security and other electronic systems?'"

Among the sessions is a symposium on creating low-energy buildings through integrated design. It includes case studies of low-energy, sustainability and integrated design in residential and commercial buildings.

A seminar focuses on HVAC&R buildings systems and how they interact with the local environment, including discussion on cooling tower water, district energy and acoustic concerns.

While many non-profits have incorporated green building design, for-profit entities are just beginning to examine green in operating strategies and projects. A seminar examines how green is good for business as well as the environment.

A forum seeks input on the barriers to using air-to-air energy recovery for sustainable HVAC systems. Energy recovery ventilation is a key equipment solution to providing efficient and sustainable HVAC&R systems.

The technical program is comprised of 62 seminars (presentations on a central or related topic with no published papers), 14 symposia (presentations with papers on a central subject), 26 open-discussion forums, a poster session and a public session. A total of 73 papers will be presented.

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 23-25, at McCormick Place. For more information, contact International Exposition Company at 203-221-9232, [info@ahrexpo.com](mailto:info@ahrexpo.com), [www.ahrexpo.com](http://www.ahrexpo.com).

Registration for the 2006 ASHRAE Winter Meeting is \$635 (\$375, ASHRAE member) prior to Dec. 2. After Dec. 2, the registration fee will be \$750 (\$490, ASHRAE member). For more information or to register, visit [www.ashrae.org/chicago](http://www.ashrae.org/chicago).