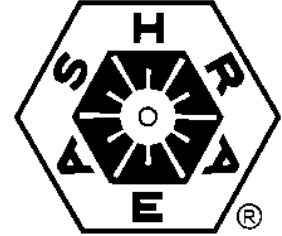


# ASHRAE MONITOR

WWW.HRCASHRAE.ORG



## Mission Statement

To advance the arts and sciences of heating, ventilation, air conditioning, and refrigerating to serve humanity and promote a sustainable world.

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### The Discussion Topic: **Chilled Beam Systems**

**Date & Time:** Wednesday, January 14, 2009  
Lunch at 11:15 A.M.  
Presentation from 12 - 1:00 P.M.

**Speaker: Patrick Jackson**  
Vice President, Integrated Solutions  
Hobbs & Associates

**Place: Hobbs & Associates**  
485 Brookside Court, Suite 100  
Norfolk, Virginia 23502

**Cost:** Members \$15, Guests \$20 & Students \$10

**Signup:** Deadline 1-13-09, See pages 4-6 for details

**Reservations:** R.S.V.P. to Rob Ainsley at  
[RAinsley@enviromechanicalsales.com](mailto:RAinsley@enviromechanicalsales.com)  
/or/  
(757)483-1390

## Host an ASHRAE Meeting

Do you have a venue suitable for hosting an ASHRAE meeting? If so, your support would be greatly appreciated. All we ask is the use of the space for the duration of the meeting. We will set up, clean up, and provide the food. If you are interested in donating use of your space, please contact Steve Lowe at 757-306-6748.

## Publish an Article about Your Project

Do you have a unique, challenging, or otherwise interesting project that you'd like to share? If so, please send a write-up and photos (if applicable) to [PaulB@aceshvac.com](mailto:PaulB@aceshvac.com). We will include one article per month in the ASHRAE Monitor. Preference will be given to local projects exhibiting sustainable design/construction practices.

*President - Steve Lowe - [Stephen.Lowe@aecom.com](mailto:Stephen.Lowe@aecom.com)  
President Elect - Gary Hayden - [Gary@gbengineering.com](mailto:Gary@gbengineering.com)  
Vice President - Rob Ainsley - [RAinsley@enviromechanicalsales.com](mailto:RAinsley@enviromechanicalsales.com)  
Secretary - Paul Butler - [PaulB@aceshvac.com](mailto:PaulB@aceshvac.com)  
Treasurer - Bill Quinn - [BillQ@pace-pme.com](mailto:BillQ@pace-pme.com)*

*Chapter cannot act on behalf of the Society.*

## *Committee Participation is Needed and Welcomed*

If anyone has an interest in becoming involved with ASHRAE we welcome people to serve in various ways. Please feel free to contact any of the board members to get more information. You can also visit the ASHRAE web site to find out more about getting involved. It is a great way to plug in to your local community of peers and grow personally and professionally. For those of you who have served before, we welcome your participation also. Every effort helps to enrich our local community.

## **Your Feedback Matters**

Are there things that you would like to see happening in ASHRAE? Please feel free to contact us with suggestions for improvement and with ideas on how you would like to see the local ASHRAE chapter change or improve. We welcome and value your feedback. Again, you can contact us utilizing the email addresses on Page 1.

Thanks!

As we enter the New Year, I'd like to take this opportunity to recall some important milestones from last year. 2008 was a great year for the Hampton Roads Chapter of ASHRAE. We set up an endowed scholarship at Old Dominion University that will provide a \$2000 annual scholarship to an engineering student in perpetuity. We held a Pig Roast Benefit to fund energy improvements at a local charity, and we have seen our meeting attendance increase year over year. All of these goals have been accomplished through the hard work and dedication of your Board of Governors. I am looking forward to the New Year as we will continue to bring solid technical programs to the chapter meetings each month.

I would like to congratulate our board and thank our sponsors for the success of the Pig Roast that was held on Thursday, November 20 at First Landing State Park. We have included the sponsor banner as a page in this month's newsletter. We had an excellent turnout despite the chilly weather and we learned some valuable lessons. Anyone who was there will tell you that Rusty (Custom Metals) did one hell of a job cooking the food! Rusty told me that he is willing to help us out again next year, so I have no doubt that this event will only get better.

We did not issue a newsletter last month, but we did hold a chapter meeting. We typically do not do either, however, when we found out that Bob Baker would be in the area, we felt that the quality of the speaker and topic warranted a break from the norm. We were right as Bob's presentation on the new ASHRAE Standard 180 was a good one for Engineers, Contractors, and Building Owners alike. I look forward to my next opportunity to hear Bob speak.

I recently forwarded a flier for a VSPE meeting to the ASHRAE membership. I did this because I feel that the topic "Continuing Education Requirements for VA PE's" is important. There was quite a large turnout for the meeting, which was very informative. Personally, I feel that it is about time that Virginia Professionals be required to stay abreast of current technology and best practice. After all, if we do not police ourselves, then someone else certainly will. At only 16 credit hours per 2 years, the requirement could be met by simply attending every ASHRAE meeting. We are developing a certificate to hand out at the meeting to aid our members in their documentation of meeting attendance. If anyone would like additional information on this topic they should go to the following websites:

[www.dpor.virginia.gov](http://www.dpor.virginia.gov)  
[www.PDHCenter.com](http://www.PDHCenter.com)  
[www.ncees.org](http://www.ncees.org)

Sincere Regards,

Steve Lowe, PE, ASHRAE Member  
 Hampton Roads Chapter President



1st Annual



## ASHRAE/IFMA Pig Roast Benefit

Proceeds to Fund Energy Improvements  
for St. Mary's Home for Disabled Children



# Hankins and Anderson

## Consulting Engineers

# CLARK • NEXSEN

*Architecture & Engineering*





### Bio for Patrick Jackson

Patrick Jackson is the Vice President, Integrated Solutions with Hobbs & Associates, a large and very diverse HVAC sales & design organization in the mid Atlantic. The "integrated solutions" in his title refers to the method used by both Owners and Engineers when designing new facilities, or renovating existing facilities, where available products and system solutions converge to create an energy-efficient and cost-effective Green facility. He is very active in speaking at ASHRAE events throughout Virginia and Tennessee on the topics of Chilled Beams, Variable Refrigerant Volume, Underfloor and Displacement Ventilation, Geothermal Systems, and other sustainable mechanical systems.

Prior to joining Hobbs, Patrick was with York International/JCI as a multi-region Business Development Manager for "ductless underfloor and overhead VAV" air distribution solutions. Previous to joining York International, he was a Director with Tate Access Floors, an active promoter of raised flooring technology and chilled beam air distribution systems since the early 1990's and has worked extensively within the construction industry in both commercial and industrial facility design.

Patrick is a graduate of the University of Maryland where he studied Mechanical Engineering Technology and Law and resides in Williamsburg, Virginia and works throughout Virginia and Eastern Tennessee.

Patrick's hobbies are family life, engineering, and his continual struggle at the game of golf.

## Chilled Beam (Air-Water) Systems

### I. Introduction

- A) Chilled Ceiling Systems
  - 1. Origin & Fundamentals of operation
  - 2. Application advantages and issues
- B) Passive chilled beams
  - 1. Origin & Fundamentals of operation
  - 2. Applications of passive beams
  - 3. Installation examples
- C) Active chilled beams
  - 1. Origin & Fundamentals of operation
  - 2. Cooling capacity
  - 3. Installation examples
  - 4. Applications for active beams
- D) Multi-service chilled beams
  - 1. Origin
  - 2. Service components
  - 3. Advantages of multi-service beams
  - 4. Installation examples
- E) Displacement chilled beams
  - 1. Origin & Fundamentals of operation
  - 2. Applications for displacement beams



This system solution provides the six results that Architects and Engineers want in a sustainable building:

- o Healthy indoor environment
- o Good thermal comfort and easy to maintain
- o Acoustically quiet and architecturally pleasing
- o Energy efficient, cost effective manner of construction

Provide a summary explanation of how this system offers many long-term, upfront features and benefits as well as case studies of local projects.

# ASHRAE MONITOR

October 1, 2008 Volume XXII, Issue 2

c/o EnviroMechanical Sales, Inc.  
1500 Breezeport Way  
Suffolk, VA 23435

**ASHRAE MONITOR**

To: Hampton Roads Chapter , ASHRAE MEETING

Fax: (757) 483.8916



I Will Be Attending the meeting on Tuesday, January 13th, 2009

My e-mail address is \_\_\_\_\_

For meeting reservations please fax this page to Hampton Roads Chapter, ASHRAE, care of Rob Ainsley at fax number 757.483.8916 or call 757.483.1390.

Email at: *RAinsley@enviromechanicalsales.com*.

Deadline for reservations and cancellations: Wednesday, November 12th at Noon.

Late cancellations and “no shows” will be billed to the appropriate individuals.

Cost: Members \$15.00, Guests \$20.00 and Students – \$10.00

This FAX will confirm my reservation for the luncheon.

This FAX will also confirm the reservations for the following members/guests indicated below:

1. \_\_\_\_\_ 3. \_\_\_\_\_

2. \_\_\_\_\_ 4. \_\_\_\_\_

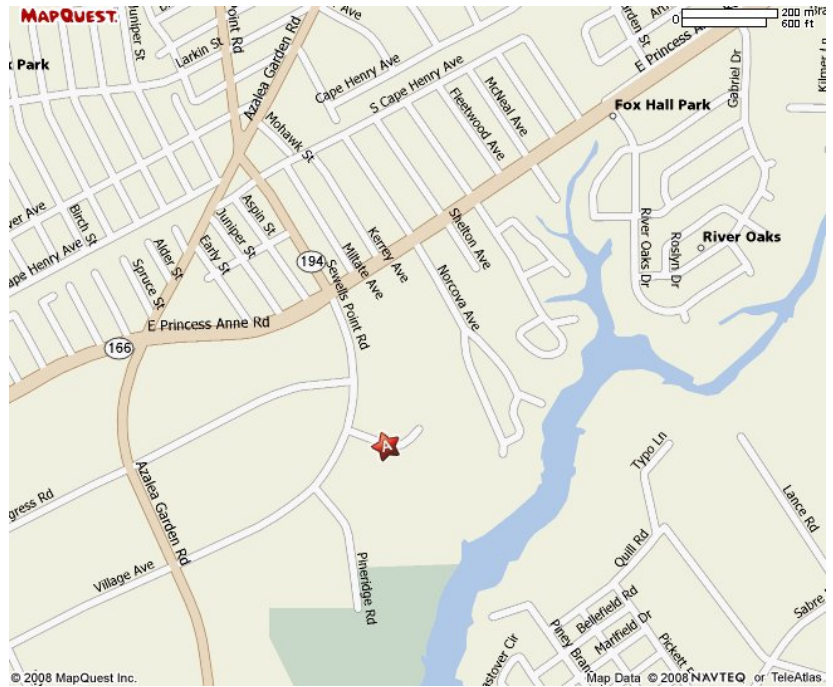




Tuesday March 17th,  
2009  
St. Patrick's Day  
8:00 am - 5:00 pm  
Ted Constant Convocation  
Center  
ODU Norfolk Campus

[http://www.vatpdc.com/pdc/engineering\\_unplugged](http://www.vatpdc.com/pdc/engineering_unplugged)

Hobbs & Assoc. Conference Room 4850 Brookside Court  
Norfolk, Virginia



# ASHRAE Meeting Schedule

## Committee Chairs

- Membership:** Douglas Henderson
- Student Activities:** Gary Hayden
- Student Advisor (ODU):** Gary Hayden
- Board of Governors:** Joe Hahn, Ben Sablan, Douglas Henderson
- Historian:** Joe Hahn
- Refrigeration:** Open
- Research Promotion:** Forrest Morgan
- Tech Transfer:** Ben Sablan

<p><b>Chilled Beams</b> Patrick Jackson</p> <p><b>January 12, 2009</b></p>	<p><b>BACnet</b> Bill Swan</p> <p><b>February 12, 2009</b></p>
<p><b>National Engineers Week 2009</b></p> <p><b>February 15-21</b></p>	<p><b>Low X</b> Gary Hayden</p> <p><b>March 11, 2009</b></p>
<p><b>ASHRAE Satellite Broadcast</b> Damuth Trane</p> <p><b>April 22, 2009</b></p>	<p><b>Spring Golf Outing</b> TBD</p> <p>May</p>
<p><b>Fall Pig Roast</b> TBD</p>	<p><b>Fall Golf Outing</b> TBD</p>