

ASHRAE MONITOR

www.hamptonroads.ashraechapters.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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YEA !

The Discussion Topic:
Measuring Whole Building Air Tightness

Date & Time: Monday, October 12, 2009
Lunch at 11:30 A.M.
Presentation from 12 - 1:00 P.M.

Speaker: Andrew Persily

Place: Tabb's Restaurant
4019 Granby Street
Norfolk, Virginia 23504

Cost: Members \$20, Guests \$25 & Students \$10

Signup: Noon Deadline, 10-7-09, See pages 5-7 for details

Reservations: R.S.V.P. to Paul Butler using the Meeting Fax Back on Page 6

at
PaulB@aceshvac.com
/or/
(757)896.0696

Special Note:

Please pay special attention to the News head line and our Presidents Pen for important information concerning the ASHRAE News Letter.

Chapter Website

The Hampton Roads Chapter website has been cleaned up and updated. Please visit often to keep up to date on this year's schedule of events and activities. The chapter meeting dates and topics have been selected. The website can also be used to send in your meeting reservation as well as contact any one of the board members. There's even a place to post employment opportunities. Please visit the site today and bookmark the link for easy use in the future:

<http://hamptonroads.ashraechapters.org/>

Scott D. Almond
Website Editor
Hampton Roads Chapter - ASHRAE
scott@mail.ashrae.org

President - Gary Hayden - Gary@gbengineering.com
President Elect - Rob Ainsley - RAinsley@enviromechanicalsales.com
Vice President - Paul Butler - PaulB@aceshvac.com
Secretary - Bill Quinn - BillQ@pace-pme.com
Treasurer - Richard Roberts - Richard.W.Roberts@jci.com
Hampton Roads ASHRAE General mailbox - HRCASHRAE@gmail.com
Chapter cannot act on behalf of the Society.

The President's Pen

President's Pen – ASHRAE Hampton Roads Chapter
September 2009 Newsletter
Gary Hayden, P.E.

I am excited to be your President for this upcoming season. I must tell you though, I am very fortunate to have many of our past Presidents still participating on the board and taking on time-consuming assignments. One of my goals this year is to bring our membership into participating on tasks so that we do not wear out the board. "One and done" kind of work. For instance, one of our toughest tasks is finding sponsors for our events that have not been approached in the past. If each member could take 15 minutes to think about possible sponsors, then either approach them or send us the lead via our e-mail address, it would be much appreciated. Sponsorship makes these projects successful. Our cost to pull off the project is covered by the entrance fees while the sponsorship money goes to the yearly group we are supporting. We tend to take the easy route and knock on the door of the same sponsors all the time, and they look forward to our knock. But we need to spread out our support base as wide as we can to continue our past success and position ourselves for greater success.

Another area that I want to emphasize is that we need help with our Student Activities at ODU and at the local high school levels. This year for engineering week, my goal is to have as many members as possible participate at either the high school or college level with a short presentation with materials that we will supply. We will have to start cranking up for this in November to be successful. Other "one and done" kind of participation will be presented at our Chapter meetings.

As we kick off the 2009/2010 ASHRAE – Hampton Roads Chapter year, we are excited about many different planned events:

1. Chapter meetings will be held the second Monday of the month at ***Tabb's at Riverview.***
2. Pig Roast in October with all fund raising going to support **ForKids.**
3. Golf Tournament in the spring to support the ODU scholarship fund.
4. Picnic event at a Tides baseball game to support ASHRAE Research.

We are also migrating our communication from a newsletter format to a website / blog that is kept current. So please book mark our website and visit often!

In closing, I would like to say that I got involved in the local ASHRAE chapter to get connected in the local area and to help HRC ASHRAE get reconnected with ODU, after being involved at the national scene since 1994. I have made some great new friends and I am enjoying the opportunity to serve the local community.

See you at the Chapter meetings!

Gary

E4K = Energy for Kids



2nd Annual Fall Pig Roast

Wednesday, October 7, 2009

3:00 to 8:00 pm

Talbot Hall on the Lafayette River

To Benefit ForKids

The Hampton Roads ASHRAE and IFMA Chapters are teaming up again this year to host our 2nd Annual Pig Roast to benefit ForKids. The event will take place Wednesday, October 7 2009 at Talbot Hall on the Lafayette River in Norfolk. ForKids is a Norfolk based Non-Profit Organization that has been leading the fight to end homelessness for families and their children in the Hampton Roads area since 1988. We are excited to work with ForKids and impact their bottom line with energy improvements to their facilities. We raised \$10,000.00 at last year's event for St. Mary's Home for Disabled Children and look forward to your continued support. Sponsorship opportunities will be made available next week. Please contact Rob Ainsley @ 757.694.1017 (must dial area code) with any questions. We look forward to seeing you out there!

This Months Meeting Details

October Speaker Bio

Andrew K. Persily

Education

Beloit College, B.A., Physics and Mathematics, 1976

Princeton University, M.A., Mechanical and Aerospace Engineering, 1979

Princeton University, Ph.D., Mechanical and Aerospace Engineering, 1982

Position

Leader

Indoor Air Quality and Ventilation Group

Building Environment Division

Building and Fire Research Laboratory

Dr. Persily works on indoor air quality and ventilation in commercial and residential buildings. His work includes the development and application of measurement techniques to evaluate airflow and air quality characteristics in a variety of building types, including large, mechanically ventilated buildings and single-family dwellings. The evaluation procedures include tracer gas techniques for measuring air change rates and air distribution effectiveness, contaminant concentrations measurements, and envelope airtightness. He is also involved with the development and application of multi-zone airflow and contaminant dispersal models.

Dr. Persily was a vice-president of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) from 2007 to 2009, and is past chair of ASHRAE SSPC 62.1, responsible for the revision of the ASHRAE Ventilation Standard 62. He is a past chair of ASTM Subcommittee E6.41 on Air Leakage and Ventilation Performance and vice-chair of subcommittee D22.05 on Indoor Air Quality.

Dr. Persily's first two years at the National Bureau of Standards were as a National Research Council Postdoctoral Research Associate, working on air infiltration in homes and large buildings. He received the Department of Commerce Bronze Medal in December 1989 and Silver Medal in 2008, and was named Young Engineer of the Year by the D.C. Council of Engineering and Architectural Societies in 1990. He was named an ASTM Fellow in 2002 and an ASHRAE Fellow in 2004.

Presentation Abstract

Measuring Whole Building Airtightness

Despite common assumptions to the contrary, commercial building envelopes are often quite leaky, which can lead to excessive energy use, thermal comfort problems, poor indoor air quality and degradation of building materials. Nevertheless, building envelopes can be designed and constructed to be quite tight. A number of steps are needed to "build tight," including specifications, communication within the design and construction team, and commissioning of the construction process. One aspect of commissioning for whole building airtightness is air leakage testing using the fan pressurization method. This approach, fairly routine in many single-family residences, has been performed in larger commercial buildings for several decades and is likely to become more common in the future. This presentation will discuss how these measurements are conducted, present the results of a number of building tests, and discuss the overall issue of building envelope airtightness.

News

The Hampton Roads chapter of ASHRAE would like to announce that it is moving further into the digital age. We are going to utilize our website in lieu of sending out the monthly news letter. We encourage you to visit our website at the beginning of each month to find the latest news and events going on with your local chapter. This move will allow us to include more photos of recent events, information on upcoming meetings, and exciting news in a virtual setting. We will also use a banner to display our sponsors for upcoming events and allow everyone the opportunity to reach our community in a whole new light. Please make sure you visit our website and look for the exciting new changes.

www.hamptonroads.ashraechapters.org

Recognition

The Hampton roads chapter would like to say thank you to some of our sponsors who have supported us in the past without getting the proper recognition as part of this final news letter.



Membership Promotion

The theme for this year's membership promotion is retention! We want everyone in the chapter to understand that ASHRAE is more than just a new handbook each year. We want to provide quality programs that will encourage you to attend the chapter meetings and become more involved in ASHRAE. This involvement can be on a chapter level, regional level, or even society. Don't have that much time? How about helping with an individual chapter event like the golf tournament, a phone-a-thon, etc? Did you know that the Hampton Roads ASHRAE Chapter along with Hampton Roads IFMA chapter is putting solar panels on St. Mary's Home for Disabled Children (<http://www.saintmaryshome.org/>)? We are ordering the equipment and will need manual labor to install the equipment. There are so many ways to help, even if it is just attending the meeting regularly.

If there is anything I can help you with from upgrading membership to dues please feel free to give me a call at 306-6731 or email douglas.henderson@aecom.com.

ASHRAE MONITOR

September 1, 2009

Volume XXIII, Issue 1

c/o ACES, Inc.
105 E Street, Suite 300
Hampton, VA 23661

ASHRAE MONITOR

To: Hampton Roads Chapter , ASHRAE MEETING

Fax: (757) 896.0696



I Will Be Attending the meeting on Thursday, October 12th, 2009

My e-mail address is _____

For meeting reservations please fax this page to Hampton Roads Chapter, ASHRAE,
care of Paul Butler at fax number 757.896.0696 or call 757.896.0650.

Email at: *PaulB@aceshvac.com*.

Deadline for reservations and cancellations: Friday, September 11th at Noon.

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

Cost: Members \$20.00, Guests \$25.00 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. _____

Hampton Roads Chapter Officers

President:

Gary Hayden

President Elect:

Rob Ainsley

Vice President:

Paul Butler

Secretary:

Bill Quinn

Treasurer:

Richard Roberts

Membership

Douglas Henderson

Student Activities:

Steve Lowe

Student Advisor (ODU):

Steve Lowe

Student Advisor (TCC):

Open

Board of Governors:

Dan Pettway, Steve Lowe,

Douglas Henderson

Historian:

Joe Hahn

Refrigeration:

Open

Research Promotion:

Forrest Morgan

Tech Transfer:

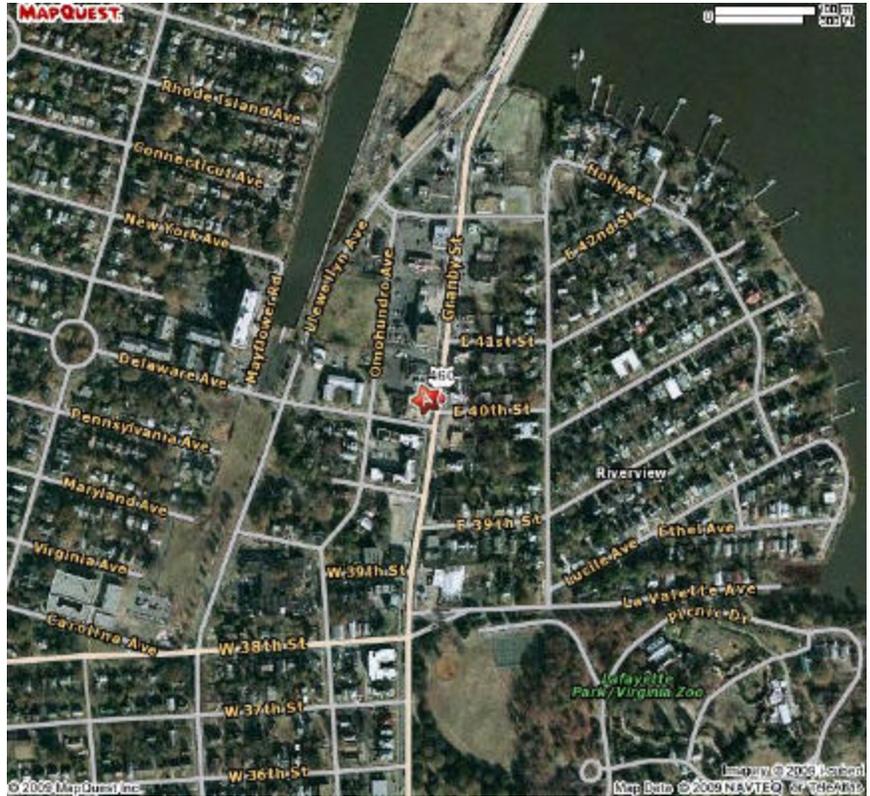
Steve Lowe

Website editor:

Scott Almond

Tabb's Restaurant

4019 Granby Street, Norfolk, Virginia 23504



ASHRAE Meeting Schedule

**2nd Annual
Fall Pig Roast**
Talbot Hall, Norfolk
October 7, 2009

Building Air Tightness
Andrew Persily
Tabb's in Norfolk
October 12, 2009

Fall Golf Outing
Details Pending

Cooling Tower App.
Steve Lowe
Tabb's in Norfolk
November 16, 2009

YEA ODU Basketball
Student Activates
December 8, 2009

DDC Controls
Gary Senechal
Tabb's in Norfolk
January 11, 2010

Business of Engineering
Mike Matthews
Tabb's in Norfolk
February 8, 2010

Mission Critical Facilities
Jeff Pfefferkorn
Tabb's in Norfolk
March 8, 2010