

THERMOGRAM

BALTIMORE CHAPTER



Volume XLVI Issue 2

October 2011

www.ashrae-balto.org

THURSDAY OCTOBER 6TH 2011

Energy Audits

Main Presentation: ASHRAE Procedures for Commercial Building Energy Audits

Over the past several years, the cost of energy has increased significantly in our region, bringing renewed focus to energy efficiency and alternative energy in order to reduce the costs of utility bills. As building owners and operations staff have looked for ways to make their budgets balance, they have looked toward increased efficiency to help them meet their goal. Independent energy audits done by professional engineers in a comprehensive manner is the best way to determine how energy costs can be lowered in a building.

The lecture will fully explain ASHRAE's Procedures for Commercial Building Energy Audits, and how this document has been used in conjunction with best engineering practices to deliver useful information to building owners and facilities managers on ways to save money. Methods, practices, and tools for performing energy audits will be discussed, as well as real life examples and lessons learned from hands on experience.

Speaker: Mr. Benjamin D. Wood, P.E.

Mr. Wood is a Mechanical Project Engineer with Kibart, Inc. Consulting Engineers in Towson, MD. Over the past several years, he has worked with commercial and institutional clients on numerous energy modeling and energy audit projects. Mr. Wood specializes in highly efficient new technologies and new analytical methods for building design. He graduated from the University of Virginia with a Bachelor of Science in Mechanical Engineering.

Technical Session 5:30-6:15 PM : Recording and Analyzing Data for Commercial Energy Audits

The presenters will discuss and demonstrate tools and methods useful for accurately recording and analyzing building data. Accurate and consistent methods are critical to providing accurate decision making information to facilities managers and building owners. Discussion will also include appropriate calculation assumptions, computational methods, and a brief overview of new technologies for energy efficiency.

Technical Presenters: Mr. Dave Panek, P.E. and Mr. Chris Sachs

Mr. Panek has experience working on multiple energy audit projects as the lead electrical engineer. Mr Panek is well versed in BIM/REVIT, as well as many tools used for survey and commissioning. He is a Senior Electrical Project Engineer with Kibart, Inc. Consulting Engineers in Towson, MD. He graduated from Johns Hopkins University with a Bachelor of Electrical Engineering.

Mr. Sachs is an expert in energy modeling and energy efficient building design. His experience includes numerous LEED and energy modeling projects. Mr. Sachs has extensive experience working with energy modeling software including E-Quest and HAP. He is a Mechanical Project Engineer with Kibart, Inc. Consulting Engineers in Towson, MD. He graduated from the University of Maryland College Park with a Bachelor of Science in Mechanical Engineering.

ASHRAE

Advancing HVAC&R to serve humanity
and promote a sustainable world



The October meeting will take place at the Engineers Club.
11 West Mount Vernon Place Baltimore, MD 21201



2011 Chapter Leadership Roster

Officers

President P:410-254-5800	Cory Colassard F:410-254-7091	Spears Votta and Associates president@ashrae-balto.org
President –Elect P:410-792-4230	Rich Goins F:301-490-7156	Cummins-Wagner vp@ashrae-balto.org
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Board Member P:410-356-3108	Dave Reese F:410-356-3109	Tourgee and Associates gov2@ashrae-balto.org
Board Member P:410-296-6500	Steve Trageser F:410-296-6501	Henry Adams senioradvisor@ashrae-balt.org
Past-President P:410-403-2200	Jason Kaduk F:410-403-2225	The Trane Company pastpresident@ashrae-balto.org

Committee Chairs

Attendance/Recpt. P:443-561-1658	James Cote F:443-561-1604	Chesapeake Systems reservations@ashrae-balto.org
Chapter Programs P:410-792-4230	Rich Goins F:301-490-7156	Cummins-Wagner vp@ashrae-balto.org
Historian P:443-478-6008	Max Singer F:410-527-2730	Johnson Controls, Inc. historian@ashrae-balto.org
Membership P:410-880-0850	Brad Watkins F:301-490-7156	Cummins-Wagner Co. membership@ashrae-balto.org
Refrigeration P:410-403-2200	Jon Olmstead F:410-403-2225	The Trane Company refrigeration@ashrae-balto.org
Research Promotion P:410-254-5800	Alexander Clark F:410-254-7091	Spears/Votta & Assoc. Inc research@ashrae-balto.org
Scholarship P:410-527-2634	John Baker F:410-472-4928	Johnson Controls, Inc. scholarship@ashrae-balto.org
Student Activities P:410-579-8100	Craig Parks F: 410-540-9041	Leach Wallace Associates studentacts@ashrae-balto.org
Student Chapters P:410-579-8100	Matt Brewster F:410-540-9041	Leach Wallace Associates studentchaps@ashrae-balto.org
TAAE P:410-265-6100	Adam Sontag F:410-298-9820	James Posey Associates, Inc. tega@ashrae-balto.org
Thermogram P:410-316-2463	Pat Harrilal F:410-472-0958	Johnson, Mirmiran & Thompson newsletter@ashrae-balto.org
Web Technician P:410-579-8100	Dave Brackett F:410-540-9041	Leach Wallace Associates ashtech@ashrae-balto.org
Christmas Party P:410-527-2612	John Prusak F:410-472-4928	Johnson Controls, Inc. Christmas@ashrae-balto.org
Spring Event P:443-977-9741	Sherry Abbott-Adkins F:410-374-5471	A Squared Plus Engineering Support Group, LLC specialevents@ashrae-balto.org
Golf Outing P:443-561-1600	R L Gladden F:443-561-1601	Chesapeake Systems golf@ashrae-balto.org
Engineers Week P:410-646-5747	Craig Parks F:410-540-9041	Leach Wallace Associates engweek@ashrae-balto.org
YEA P:410-880-0850	Brad Watkins F:301-490-7156	Cummins-Wagner Co. YEA@ashrae-balto.org
CRC P:443-561-1600	Tyler Lee F:443-561-1601	Chesapeake Systems YEA@ashrae-balto.org
Chapter Tech Xfer P:410-792-4230	Richard Goins F:301-490-7156	Cummins-Wagner CTTC@ashrae-balto.org



President's Pen



The 2011-2012 Chapter year got off to somewhat of a slow start with the 2nd Annual Product Show. I would like to thank all of the manufacturer's representatives that spent their time and money and were prepared to inform the Chapter members of the available products. Unfortunately, there was limited turnout by the members. The limited turnout was a result of many variables including the continued poor weather conditions, the first night of NFL football and the fact that, despite being on the website, the Thermogram was not distributed to the members. We want to assure the manufacturer's representatives that the Board is committed to correcting the issues that we can control that lead to the poor turnout and request that you continue to support the Annual Product Show in the coming years.

The issues with getting the Thermogram to the members have already been resolved. You will see the Chapter Program for the entire year in this issue. Please mark each date on your calendars now so that you are reminded of the meeting dates. Programs Chairman and President Elect Rich Goins has put together a program that will provide ample learning opportunities for the young engineer, the seasoned veteran engineer and those that are interested in expanding their knowledge base. Thanks to Rich for all of his behind the scenes efforts.

The presentations for the October 6, 2011 meeting should prove to be very interesting and informative. The Technical Session is titled *Recording and Analyzing Data for Commercial Energy Audits* and the main Topic is *ASHRAE Procedures for Commercial Building Energy Audits*. Make sure to read the write up about the topics and presenters. Also, make sure to complete the evaluation forms following the Main Presentation; this helps the Board determine what type of topics and presenters pique the interest of the members.

There are also other announcements included in this edition of the Thermogram, including:

- TA/AEE (formerly TEGA) Submission Information (Chairman-Adam Sontag tace@ashrae-balto.org)
 - * This is your opportunity to get recognized for innovative, energy saving projects.
 - * The Baltimore Chapter did not submit a single application last year-WE CAN DO BETTER!!
- College Scholarship Application Information (Chairman-John Baker scholarship@ashrae-balto.org)
 - * The Baltimore Chapter awards multiple scholarships to college students annually.
 - * The process is simple and painless.
- 1st Annual Rockfish Fishing Tournament Information/Registration Forms (Chairman-Alex Clark research@ashrae-balto.org)
 - * New Research Promotion Chairman Alex Clark is initiating a new event to raise money for ASHRAE Research.
 - * Reduced cost for Young Engineers.
 - * Limited space.
- 62nd Annual Christmas Party (Chairman-John Prusak Christmas@ashrae-balto.org)
 - * What more needs to be said?
 - * Tickets are on sale now.

Research Promotion Chairman Alex Clark (research@ashrae-balto.org) will have recently attended Centralized Training sessions held by National to assist him in being successful in his efforts. Alex is one of the young, aggressive, active members of our Chapter and as mentioned he is working with his committee to improve the level of member participation in the Chapter and increase Research Promotion donations from the Chapter. All of the profits from the 1st Annual Rockfish Fishing Tournament will be donated by the Chapter to ASHRAE Research. Let's make this 1st annual event a success. Let's all help Alex out this year with a donation to ASHRAE Research so that we exceed the goal set by National. The global economy has been tough for the past few years but, every donation helps no matter how small. Contact Alex or donate on the ASHRAE website; make sure to indicate your affiliation with the Baltimore Chapter so the Chapter can credit your donation toward our goal.

As the Chairman for both Membership (membership@ashrae-balto.org) and Young Engineers in ASHRAE (YEA@ashrae-balto.org) Brad Watkins, another of our young, aggressive, active members will be attending Centralized Training sessions for both Membership Promotion and YEA. This will assist Brad in improving member retention, increasing Chapter membership, and upgrading the membership grade of the Chapter members. Each member should review their grade and see if it can be upgraded. It is a simple process but if you need help contact Brad. The younger engineers should look for upcoming events that are directed toward them. These events are fun and FREE and only have the goal of introducing the young members to ASHRAE. The "OLD" members of ASHRAE are also welcome at these events and it is a great way to introduce yourself to our young members. The Board and Committee Chairs look forward to continuing the tradition of the Baltimore Chapter year that has been put in place by those before us. To do this, we need the participation and involvement of the members. The level of participation is up to you. Small things such as changing your Membership Grade or a small donation to Research Promotion each help the Chapter improve and be successful. Involvement on a committee of your interest/choosing helps the other committee members provide the best for the Chapter membership. All of these efforts, by many individuals, has made the Baltimore Chapter the best Chapter Region III and will allow us to continue the tradition. Consider becoming a part of the success.

The Chapter Leadership Roster is part of each Thermogram. Feel free to contact anyone with comments, questions or concerns. Also, if you are interested in volunteering and providing your support at any level contact any Board member or the Committee chair of your interest. You can also contact us through the Chapter website at www.ashrae-balto.org

Thanks for your support of the Baltimore Chapter,



Attention College Students

Are you currently an engineering student planning a career in the Baltimore Area? Let ASHRAE Baltimore help you with your education!

The Scholarship Committee is accepting applications for the 2011-2012 school year. Applications will be accepted until December 31, 2011, for award during the first quarter of 2012.

Last year, the Baltimore Chapter awarded twelve scholarships ranging from \$250 to \$2,000 to students working towards careers in ASHRAE related fields in the Baltimore Area. It's 2011, and once again, we're looking for the best and brightest students to apply.

For information please contact John Baker at 410-527-2634 or via email at john.j.baker@jci.com.

62nd Annual ASHARE Christmas Party

Date: Friday December 2, 2011

Time: 5:00pm to 10:00 pm

Price: \$50.00, Table of 10 - \$500.00

Location: Timonium Fair Grounds – 4H Building

Raw Oysters – Beef on The Rod – Beer

For tickets contact: John Prusak (john.prusak@jci.com) or Cory Colassard (ccolasard@sv-a.com)



ASHRAE 2011-2012

Meeting Schedule

Please mark you calendar with the following dates for the 2011 through 2012 Baltimore Chapter meetings. A complete schedule indicating seminar, technical session and main meeting topics will be published in the coming month's Thermogram and is also available on the chapter website www.ashrae-balto.org.

August 12 & 13	Chapter Regional Conference	Scranton, PA
September 8, 2011	2nd Annual Product Show	ESB
October 6, 2011	Main Meeting: Energy Audits Tech Session: Understanding the Audit Process	ESB
November 3, 2011	Main Meeting: Evolution of Economizer Controls Tech Session:	ESB
December 1, 2011	Christmas Party	Timonium Fairgrounds
January 5, 2012	Main Meeting: Future Trends in Buildings DL Tech Session: Anchoring Systems	ESB
February 2, 2012	Tour: Refrigeration Systems- Phillips Seafood	Off- Site
March 1, 2012	Main Meeting: Energy efficiency in pumping systems Tech Session: TBA	ESB
April 5, 2012	Main Meeting: Legalities of Contracts Tech Session: TBA	ESB
May 3, 2012	Main Meeting: Geo Thermal Systems Tech Session: Lessons Learned	ESB
June, 2012	55th Annual Golf Outing	Turf Valley CC

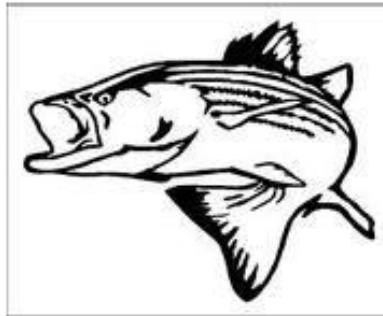
Main: Main meeting 6 pm social hour, 7pm dinner & meeting (\$25 Dinner Fee for Full Members, \$10 Dinner Fee For Students)

Tech: 1 hour Technical Session 5:00pm – 6:00pm





A.S.H.R.A.E BALTIMORE CHAPTER



2011 FIRST ANNUAL ROCKFISH TOURNAMENT FRIDAY NOVEMBER 11, 2011

ENTRY FEE IS \$900.00 PER BOAT SPONSOR*
\$140.00 PER PERSON**
\$100.00 PER ASHRAE YEA MEMBER (35 & Younger)**

LIMITED TO 36 FISHERMEN (6 BOATS WITH 6 FISHERMEN EACH)

NOTE THAT TIPS FOR THE FIRST MATE ARE INCLUDED IN THE ABOVE PRICE

ALL PROCEEDS GO TO ASHRAE RESEARCH AND PROMOTION

PAID ENTRY TO THE TOURNAMENT INCLUDES EIGHT-HOUR CHARTER FISHING TRIP, CONTINENTAL BREAKFAST, BEER AND SNACKS ON THE BOAT AND AWARDS BUFFET LUNCH WITH BEER

TOURNAMENT SCHEDULE

REGISTRATION: 4:30-5:30 AM
BOATS LEAVE MARINA: 6:00 AM
BOATS RETURN TO MARINA: 2:00 PM
AWARDS LUNCH: 2:00 - 4:00 PM

PRIZES

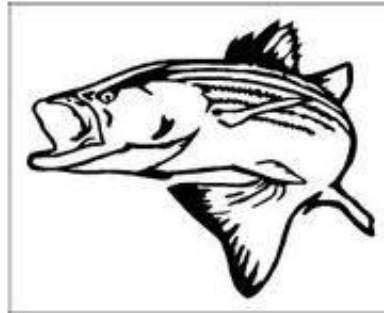
- \$50 GIFT CARD TO BASS PRO SHOPS FOR EACH MEMBER OF THE BOAT WITH THE HEAVIEST AVERAGE WEIGHT FOR A BOAT
- \$150 GIFT CARD TO BASS PRO SHOPS FOR THE FISHERMAN WHO CATCHES THE LARGEST FISH

*EACH BOAT SPONSORSHIP INCLUDES COOLER FOR BOAT WITH COMPANY LOGO, SIX FISHING ENTRIES AND LUNCH

**ENTRIES WILL BE RESERVED ONCE THE PAYMENT IS RECEIVED



A.S.H.R.A.E BALTIMORE CHAPTER



PLEASE DIRECT ALL QUESTIONS TO:

ALEX CLARK – ASHRAE RP CHAIR
410-254-5800
research@ashrae-balto.org

TOURNAMENT RULES:

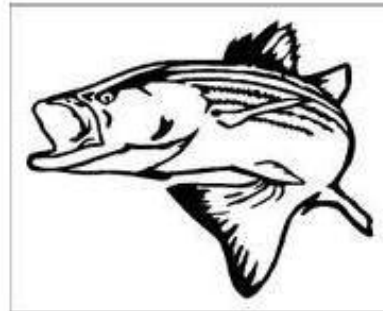
The tournament will be held at Happy Harbor Marina in Deale, MD. Boats will be leaving and returning from Happy Harbor Marina located at 533 Deale Road, Deale, MD 20751. The weigh-in will begin at 2:00 PM and all boats must be present at the marina by 2:00 PM in order to qualify for prizes. Lunch will be provided at Happy Harbor Restaurant located at the marina and will be buffet style. Beer, soft drinks, coffee and tea will be provided, mixed drinks will be cash.

SPONSORSHIP AVAILABLE AS FOLLOWS:

COOLER SPONSOR	<i>\$100.00 (Includes company name/logo on cooler)</i>
BREAKFAST SPONSOR	<i>\$100.00 (Includes sign at breakfast)</i>
LUNCH SPONSOR	<i>\$200.00 (Includes sign at lunch)</i>
AWARDS SPONSOR	<i>\$350.00</i>
BAR SPONSOR	<i>\$400.00 (Includes sign at bar)</i>



A.S.H.R.A.E BALTIMORE CHAPTER



2011 FIRST ANNUAL ROCKFISH TOURNAMENT OFFICIAL ENTRY FORM

PARTICIPANTS

(Please list quantity and provide list of participants if a whole boat is purchased)

WHOLE BOAT SPONSORSHIP:	_____	(\$900 Per Boat)
INDIVIDUAL FISHERMEN:	_____	(\$140 Per Person)
YEA MEMBER FISHERMEN:	_____	(\$100 Per Person)

SPONSORSHIP (Please list quantity)

COOLER SPONSOR:	_____	(\$100)
BREAKFAST SPONSOR:	_____	(\$100)
LUNCH SPONSOR:	_____	(\$200)
AWARDS SPONSOR:	_____	(\$350)
BAR SPONSOR:	_____	(\$400)

Please return completed form and checks no later than November 4th, 2011 to:
Alex Clark
7526 Harford Road
Baltimore, MD 21234

Make checks payable to ASHRAE Baltimore Chapter

Call (410-254-5800) or email (research@ashrae-balto.org) with any questions or to find out sponsorship availability



2011-12 MONTHLY PLEDGE REPLY FORM

Response Requested by 12/01/2011

ATTENTION: Candace DeVaughn
CDevaughn@ashrae.org
404-636-8400 x1147
678-539-2147 (fax)

SUBJECT: Monthly RP Donation

For about 30¢ a day, you can become an Honor Roll Level RP donor!

I authorize ASHRAE RP to charge my credit card through June, 2012:

- Monthly \$_____ per month
- Bi-Monthly \$_____ per month

This should be credited as a(n):

- Individual Donation
- Company Donation

FROM: Name _____

Member/ Donor Number _____

Company _____

Address _____

City/State/Zip _____

Phone _____

Email _____

Credit Card # _____ Exp. Date _____

____American Express ____MasterCard ____Visa

Signature _____

HONOR ROLL INVESTOR CATEGORIES

- \$1,000 - \$2,499: Major Investor
- \$500 - \$999: Major Donor
- \$250 - \$499: Honor Roll Investor
- \$100 - \$249: Honor Roll Donor

ASHRAE, Inc. is a qualified 501(c)(3) organization.
100% of every dollar contributed is invested in HVAC&R research.



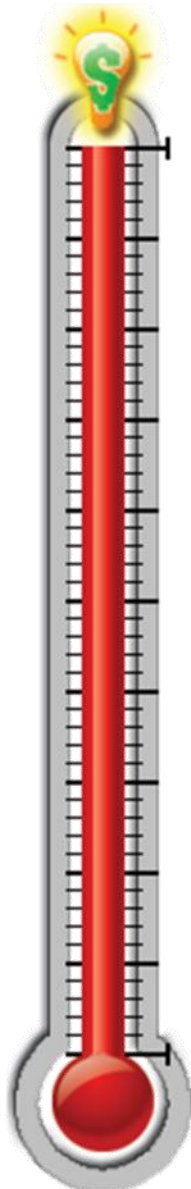
ASHRAE Research Donors '10-'11

\$15850

Baltimore Chapter



\$31,448 Wow!!



\$1,000

**Joseph Zimmer Inc.
Baltimore Aircoil Co.
Evapco, Inc.**

\$500 TO \$999

**Baumgartner Inc.
Schlenger Pitz & Associates, Inc.
Havtech Corporation
RMF Engineering-Baltimore
Carrier Corp.
Chesapeake Systems
Acorn Supply & Distributing, Inc
Abby Enterprises**

\$250 TO \$499

**E & S Construction Engineers, Inc.
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\$100 TO \$249



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\$10 TO \$99

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THANKS TO OUR 2010-2011 RP DONORS FOR THEIR SUPPORT!!!!

The 2011-2012 Research Promotion Campaign is in full swing and runs from July 1, 2011 to June 29, 2012.

Ways to contribute:

Online at WWW.ASHRAE.ORG. On the right side go to Quick Links, click on online contribution. Fill in all the required information. Please remember to put **BALTIMORE CHAPTER** in the Assigned Ashrae Chapter area so **your chapter** can receive credit.

OR

Make your checks out to **ASHRAE RESEARCH FUND**. Please remember to add **BALTIMORE CHAPTER** to the memo line. Send to 1791 Tullie Circle NE, Atlanta Georgia 30329-2305.

OR

Contact me. Phone: 410-254-5800

Email: research@ashrae-balto.org

Research Promotion Recognition night is October 6th. Please plan to attend and support our last campaign donors.

Baltimore Chapter Research Promotion Campaign nights are scheduled for October 6th and April 5th. We will be accepting donations.

Anyone interested in becoming part of the Research Committee, contact Alex Clark (410-254-5800) or Sherry Abbott-Adkins (443-977-9741)

Sincerely your Research Promotion Chair,



Scholarship Application

The Baltimore Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers offers scholarships each year to students pursuing their Bachelor’s Degree in an ASHRAE related field. Eligibility is determined in order of importance based on the following criteria:

- ASHRAE field of training.
- Accredited course in recognized college (or program pre-approved by ASHRAE Board)
- Matriculating for a degree in an ASHRAE related engineering field
- Residing in, or moving to the Baltimore Chapter assigned area (Permanent resident)
- Working in the Heating, Ventilating, Air Conditioning, and Refrigeration (HVACR) field.
- Son or daughter of a Baltimore chapter member, living or deceased.*
- High Scholastic standing or average from previous year.
- Financial need.
- A veteran with an Honorable Discharge or member of United States Armed Services.

*Note: If you are acquainted with an existing Baltimore Chapter Member, please note this as well.

Applications are reviewed by the Baltimore Chapter of ASHRAE Scholarship Committee anonymously. Scholarship funds are made available to students directly during the first quarter of the calendar year.

Instructions:

Please return completed application and a **current transcript** by December 31, 2011 to:

ASHRAE Scholarship Committee
 c/o John J. Baker
 Johnson Controls, Inc.
 60 Loveton Circle
 Sparks, MD 21152
 Email: john.j.baker@jci.com
 Fax: 410-527-2730

Name: _____

Permanent Mailing Address: _____

Phone #: _____ Email: _____



What is your major? _____

Are you Matriculated in a 4 year (Bachelor's) Degree Program at an accredited institution? _____. School: _____

What is your cumulative GPA in all courses taken through the end of the Spring, 2011 semester? _____.

What is your GPA in all engineering courses taken through the end of Spring, 2011 semester? _____.

List the courses that you are taking this semester (Fall 2011) and the instructors:

Course #	Course Title	Instructor
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Are you related to an ASHRAE Baltimore Chapter member (Living or deceased)?
_____ Yes _____ No (Please DO NOT name chapter member at this time).

Are you a veteran (with an Honorable Discharge) or currently serving in the United States Armed Services?
_____ Yes _____ No

Are you a member of any professional societies or clubs (either regional chapter or student chapter)? If so, list them below. Include offices held, committees on which you have served, activities in which you participated, etc. (Attach additional sheets if needed.)



TO: BALTIMORE CHAPTER, ASHRAE
EMAIL: jcote@chesapeakeys.com
FAX: (443) 561-1604



**YES! I will attend the October Meeting Thursday
October 6th.**

Reservations: We are encouraging members to make reservations via e-mail. Those planning to attend should write to jcote@chesapeakeys.com indicating name(s) and membership status. (member or guest) Please be sure to also include "ASHRAE Meeting" in the subject matter line. If you wish to continue utilizing technology from the previous century, you can always fax this page to:

Chesapeake Systems, attn: James Cote - Reservations at 443-561-1604, or call James at 443-561-1600

Deadline for reservations and cancellations: Monday, October 3rd - NOON.

There is no cost for the Annual Product Show! It's FREE!

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

Circle one:

1. _____

Member Guest

2. _____

Member Guest

3. _____

Member Guest

4. _____

Member Guest

5. _____

Member Guest

6. _____

Member Guest

7. _____

Member Guest

8. _____

Member Guest