

# 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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## The Discussion Topics:

**Tuesday, December 4, 2012**  
**"Chilled Beams for Energy Efficient Design"**

**Date & Time:** Tuesday, Dec 4, 2012

Lunch: 11:45A.M - 1:00 P.M.

Dinner: 5:00P.M. - 6:15P.M.

**Speaker: Tom Rice**  
**(SEMCO LLC)**

## Place:

### Lunch Location:

**ITT TECH Auditorium, 863 Glenrock Road, Norfolk, VA 23502**

**Time: Meet and Greet/Lunch at 11:45am and Tech Session begins at 12:00 pm**

### Dinner Location:

**Warwick Plumbing and Heating Corporation, 11048 Warwick Blvd., Newport News, VA 23601**

**Time: Meet and Greet/Dinner at 5:00 pm and Tech Session begins at 5:15 pm**

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

## Signup:

See page 3 for details

## NEW:

## Peninsula Technical Session!!

ASHRAE Hampton Roads has recognized the need for technical sessions to be held for our members on the peninsula. We are excited to offer our monthly meetings on both sides of the tunnel. The evening sessions will be hosted at Warwick Plumbing & Heating.

## 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 [Daniel\\_Johnston@siemens.com](mailto:Daniel_Johnston@siemens.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 - Paul Butler - [PaulB@aceshvac.com](mailto:PaulB@aceshvac.com)

President Elect - Richard Roberts- [Richard.w.Roberts@jci.com](mailto:Richard.w.Roberts@jci.com)

Vice President - Daniel Johnston - [Daniel\\_Johnston@siemens.com](mailto:Daniel_Johnston@siemens.com)

Secretary - Marc Robillard- [Marc.Robillard@navy.mil](mailto:Marc.Robillard@navy.mil)

Treasurer - Scott Almond - [scott@mail.ashrae.org](mailto:scott@mail.ashrae.org)

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!

## From the Presidents Pen

Dear Members and friends,

Thank you to our members, generous sponsors, and any who have given your time or treasure to support ASHRAE.

Thank you to our ASHRA event hosts for facilities to perpetuate our mission.

**Thank you to all of our Past Presidents!** Please attend one of our meetings next Tuesday as our guests so that we can recognize you personally. The location and time for the meetings is in this newsletter!

Thank you to our board members, chairs, and our board of governors, current and past. It is a real pleasure to have the honor of learning from you and serving with you.

Thank you to those who are working to grow ASHRAE student involvement in our local universities and schools. The recent growth and development is healthy because of your efforts and ideas.

Thank you to the YEA volunteers and leadership. Your work and participation is key to encouraging future leaders in our organization and industry.

We are seeing growth in our peninsula dinner meeting and our south-side luncheon attendance is consistent. **Make it a point to join us at our meeting on Tuesday!** There is plenty of room, good food, and you will receive 1 PDH for attending.

I want to thank and congratulate Marc Robillard who has stepped in as ASHRAE HRC Secretary and who is our YEA committee chair. It's because of people like Marc that we can be successful as an organization. Thanks to Nancy Mitchell-Veeck, also and ASHRAE past president who stepped in and filled the void as secretary in the interim. We still have to fill the treasurer position where fellow Past-President Scott Almond is faithfully serving. **If you can serve in any capacity please contact me.** There are many opportunities.

Please share this newsletter both within and outside of your organization and contribute by getting the word out. I look forward to seeing you at the events! Check out our upcoming ODU basketball game event which promises to be a good time.

I wish you and yours a Merry Christmas and/or Happy Holidays. As always – **THANK YOU** for making it happen for ASHRAE in Hampton Roads!

Paul Butler - Hampton Roads Chapter President

**Tuesday, December 4, 2012**  
**Past Presidents Appreciation**  
***“Chilled Beams for Energy Efficient Design”***



In appreciation of prior service, the Hampton Roads Chapter would like extend a special invitation to all past-presidents for a complimentary lunch at this meeting. Hope to see you there!

Guest Lecturer –*Tom Rice* graduated with a bachelor's degree from Columbia College and MBA from William Woods University. Employed by SEMCO LLC since 2000, Tom has provided technical insight into hundreds of enthalpy wheel and chilled beam applications. Tom is currently the Product Manager for SEMCO, a full member of ASHRAE and a member of the USGBC-Heartland Chapter.

**Abstract:** The application of chilled beams in the United States market initially was through duplication of the European approach. It is well known that the climate of the United States is more humid than the Scandinavian countries that have embraced the technology for the past few decades. In the meantime, the design community in the United States developed the decoupling approach, using dedicated outside air systems (DOAS) to eliminate both outdoor as well as indoor humidity loads. The marriage of these two technologies has yielded highly efficient building systems that have exceeded ASHRAE 90.1 by more than 30% with little to no first cost impact through the downsizing of the overall plant requirements.

**Learning Objectives:** 1) A focus on humidity in lieu of temperature. Utilizing 350-400 sq ft per ton, 20° delta T, etc. are the rules of thumb that handles temperature, but what about humidity? Also, is this the most energy efficient means to achieve building IAQ and comfort? 2) There is more than one configuration of DOAS. This presentation will cover three similar, but different manufacturer approaches. The key for the engineer is to ensure that the performance of the system will maintain its performance regardless of the outdoor and space conditions to minimize the liability of the design community, regardless of the end device the DOAS is serving. 3) A brief overview of chilled beams and their implementation in lieu of more traditional approaches such as heat pump, fan coil, and VAV in order to re-introduce their benefits as the end device of choice for energy efficient building design..

**Earn 1 hour of Professional Development Hours at this meeting.**

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**Dinner Location: Warwick Plumbing and Heating Corporation, 11048 Warwick Blvd., Newport News, VA 23601**

**Time: Meet and Greet/Dinner at 5:30 pm and Tech Session begins at 6:00 pm**

**Payment: Members = \$20.00 Non-Members = \$25.00 Students = \$10.00**

**For reservations go to <http://hamptonroads.ashraechapters.org/>**

# Young Engineers in ASHRAE (YEA)

Greetings from YEA again,

We've had a couple of great gatherings the last couple of months at the Greene Turtle in Chesapeake and Buffalo Wild Wings in downtown Norfolk. So come join us for our next get-together ON THE PENINSULA at the Green Turtle in Hampton. It will be on Thursday, December 27th from 5:30-7:30. Check out the invite here: <http://goo.gl/E1btM>

The YEA Happy Hours are an excellent way to meet people in your industry. A lot of the people you meet through YEA and ASHRAE may be the same people you end up working with!

If you work at a firm or business that employs younger engineers, then getting them involved in YEA and ASHRAE is a fantastic way to build your workforce and your business. On one hand your employees will be gaining valuable exposure to knowledge and experience. On the other, your employees will be getting your firm's name out in the community- for free! And why not let 'em have a good time while they're at it?

As always, you can contact YEA at [hamptonroadsyea@gmail.com](mailto:hamptonroadsyea@gmail.com) for questions, concerns, and improvements. We'll see you around!

-Marc Robillard  
YEA Committee Chair

# THANK YOU 2012 SPONSORS!!!

## E4K Pig Roast Benefit



### Gold Level



7420 CENTRAL BUSINESS  
PARK DRIVE, SUITE 3  
NORFOLK, VA 23513  
**(757) 486-1600**  
FAX (757) 486-8606

611 MOOREFIELD PARK DRIVE  
SUITE A  
RICHMOND, VA 23236  
**(804) 323-7890**  
FAX (804) 323-7895

1314 PETERS CREEK ROAD, N.W.  
SUITE 252  
ROANOKE, VA 24017  
**(540) 562-0500**  
FAX (540) 562-1975

### Silver Level

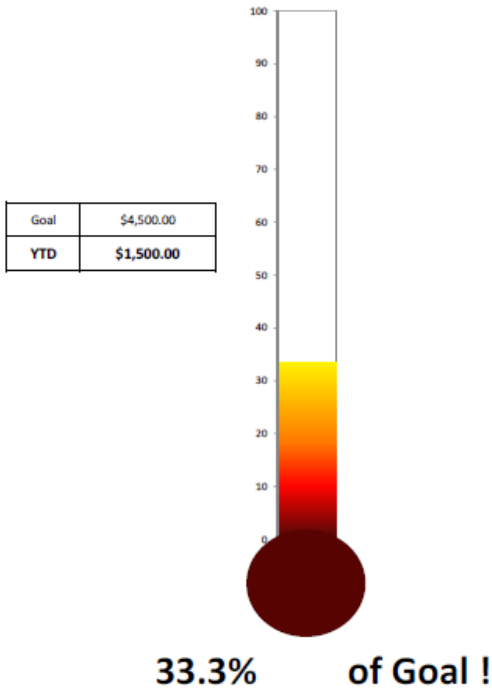


### Bronze Level



## ASHRAE MONITOR

HRC:2012-13  
Research Promotion Goal



## Committee Chairs

### Membership Chairman:

Douglas Henderson

### Research Promotion: Forrest Morgan

Student Activities: Gary Hayden

Historian: Joe Hahn

Refrigeration: Tim Adams

Technology Transfer: Steve Lowe

Website Editor: Scott Almond

YEA Committee Chairman:

Marc Robillard

Chapter Volunteer: Jeremy Thomas

### Board of Governors:

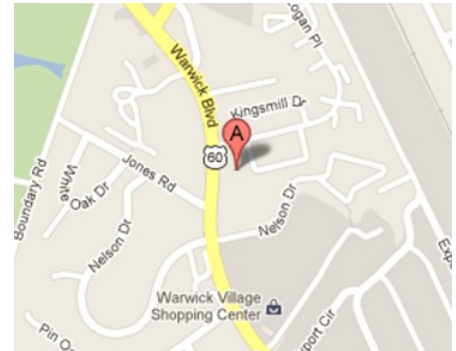
Rob Ainsley, Nancy Mitchell Veeck,  
Al Veeck

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863 Glenrock Road, Norfolk, VA 23502

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## Meeting Schedule

### Chilled Beams

Dec 4

### Sustainable Designs by Virginia Beach Public Schools

Jan 8

### Chapter Meeting TBD

Feb 5

### IFMA/ASHRAE Holiday Social Lynnhaven House December 18

### AHR Expo

Jan 28-30