

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 Topic:
Standard 189.1—Structure, Requirments, and Energy Savings”

Date & Time: Tuesday, March 6, 2012
Lunch at 11:45 A.M.
Presentation from 12 - 1:00 P.M.

Speaker: Drury B. Crawley, PH.D

Place: ITT Tech Auditorium
863 Glenrock Road
Norfolk, Virginia 23502

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

Signup: Reservations are requested by, 3-05-12,
See page 5 for details

Reservations: R.S.V.P. at
<http://hamptonroads.ashraechapters.org>

Career Opportunities?

The Hampton Roads Chapter would like to offer publication of current positions available for our membership.

Please contact:
Daniel_Johnston@siemens.com

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 rainsley@enviromechanicalsales.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 - Rob Ainsley - RAinsley@enviromechanicalsales.com*
- President Elect - Paul Butler - PaulB@aceshvac.com*
- Vice President - Richard Roberts- Richard.w.Roberts@jci.com*
- Secretary - Daniel Johnston - Daniel_Johnston@siemens.com*
- Treasurer - Scott Almond - 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

From the President's Pen:

Dear Members,

I hope this newsletter finds everyone doing well and anticipating our next Chapter Meeting. We are hosting a joint meeting with the Hampton Roads Green Building Council next Tuesday, March 6th at the ITT Technical Institute Auditorium in Norfolk (please note the venue change). A very popular ASHRAE Distinguished Lecturer, Dr. Dru Crawley, will be presenting on "ASHRAE Standard 189.1 for the Design of High Performance, Green Buildings, except for Low-Rise Residential Buildings," which is the first code-intended commercial green building standard in the United States. More information on Dr. Crawley, the topic, and meeting location can be found in this newsletter.

This upcoming meeting is our Membership Promotion meeting. Douglas Henderson chairs this committee and has done a tremendous job as our membership continues to rise. We still need your help so please reach out to a friend or colleague and bring them to the next meeting. We also need your help in volunteering at the board level as a committee chair or board member so that we can continue the success and growth of our Chapter.

February's meeting was another success and we would like to thank John Dunlap for his presentation as well as the members who attended. It was our largest crowd this year filled with new and old faces so let's keep the momentum growing. We also held our Annual Student Activities Event at the ODU Basketball game where VCU edged out a victory in the closing seconds of a thrilling game. We watched the game from the club level party box where we enjoyed pizza, snacks, beverages, networking, and oh yeah, the basketball game. Thank you again to all that made this year's event special.

We only have a few months left in our season, but they are packed with three more chapter meetings and our Golf Tournament. We will be hosting two chapter meetings in April, one on the 3rd regarding Ground Source Heat Pumps and one on the 19th which will be our ASHRAE Webcast on Dedicated Outdoor Air Systems. We will be hosting another ASHRAE Distinguished Lecturer for our May 8th meeting where we will have Dr. Bill Bahnfleth give us a presentation on ASHRAE's Building Energy Quotient program. More details and information regarding these meetings will follow in subsequent newsletters and "save the dates." Our Annual Spring Golf Tournament will be on Thursday, May 17th at Sleepy Hole Golf Course.

Thank you and see you all at the next meeting!

4th Annual Pig Roast

Proceeds funded \$10,000 in energy improvements
for the Facilities at YWCA

E4K Pig Roast Benefit



Gold Level



Silver Level



Bronze Level



AECOM



SIEMENS

Tri-Star Electric, Inc.

Thank You!

3rd Annual Research Promotion Event At Harbor Park



GRAND SLAM



HOME RUN



TRIPLE



DOUBLE



INGENUITY WELCOME

SINGLE



DOOR PRIZES



Thank You!

Hampton Roads Chapters of ASHRAE and USGBC

Tuesday, March 6, 2012

“Standard 189.1 – Structure, Requirements, and Energy Savings”

Distinguished Lecturer – Drury B. Crawley, PH.D. Director of Building Performance Products with Bentley Systems, Inc. in Washington, DC. Dr. Crawley leads the development of software for building performance and sustainability at Bentley Systems. Prior to joining Bentley Systems in 2010, he led the U.S. Department of Energy’s team working to achieve cost-effective net-zero energy commercial buildings by 2025 and was responsible for managing the DOE’s building energy software tools development activities including EnergyPlus and the Open Studio plugin for Google SketchUp.

With more than 30 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in government research and standards development organizations, as well as building software, design and consulting companies. A registered architect, he also has a PhD in Mechanical Engineering on the topic of building simulation as a policy tool from the University of Strathclyde in Glasgow, Scotland.

He is active in ASHRAE serving as committee chair and member on several technical committees, included Standard 189.1. He was made an ASHRAE Fellow in 2009, received an ASHRAE Distinguished Service award in 2003 and a 1999 Symposium Best Paper Award for “Which Weather Data Should You Use for Energy Simulations of Commercial Buildings?” He is also active in AIA, IBPSA, USGBC (former member of the Research Committee and the Energy & Atmosphere TAG), and serves on the editorial boards of three international Journals.

Topic: Standard 189.1, Standard for the Design of High-Performance, Green Buildings except Low-Rise Residential Buildings, is the first code-intended commercial green building standard in the United States. It provides a long-needed green building foundation for those who strive to design, build, and operate green buildings. The standard covers key topic areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building’s impact on the atmosphere, materials and resources, and includes construction practices as well as plans for operation of the building after occupancy. This presentation provides an overview of the structure and requirements of Standard 189.1 as well as the expected energy savings by commercial building type.

Earn 1 hour of Professional Development Hours at this meeting.

Date: ***TUESDAY** March 6, 2012

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

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

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

AECOM receives Honor Award for Engineering Excellence
ACEC Virginia bestows 2012 award for the Fort Leavenworth Regional
Corrections Facility

Virginia Beach, Virginia (March 2012)—AECOM Technology Corporation, a leading international provider of professional technical and management support services for government and commercial clients, reports that AECOM's Hampton Roads office was recently honored by the Virginia chapter of American Council of Engineering Companies with an Honor award for the innovative and sustainable design of the Fort Leavenworth Regional Corrections Facility in Leavenworth, Kansas for the US Army Corps of Engineers, Kansas City District.

Achieving the standards for a LEED Silver certification was a challenge for the designers, considering the inherent need for staff safety and building security in a facility of this type. The experienced design team in both correctional facilities and energy efficiency allowed for innovation in the design of an energy system that has made waves in both USACE and the correctional industry. A highlight of this innovative approach was the geothermal system—one of the largest systems ever constructed by the USACE Kansas City District. The system consists of 480 wells and has a cooling and heating capacity of 450 tons and 5400 MBH respectively. This system was designed in such a way that it did not jeopardize staff safety or building security.

The award was presented during the EEA Gala at the Jefferson Hotel in Richmond, Virginia on Thursday February 2, 2012.

About AECOM

AECOM is a global provider of professional technical and management support services to a broad range of markets, including transportation, facilities, environmental, energy, water and government. With approximately 45,000 employees around the world, AECOM is a leader in all of the key markets that it serves. AECOM provides a blend of global reach, local knowledge, innovation and technical excellence in delivering solutions that create, enhance and sustain the world's built, natural, and social environments. A *Fortune 500* company, AECOM serves clients in more than 130 countries and had revenue of \$8.0 billion during its fiscal year 2011.

Does your company have a project or award you would like to share with the membership? If so, please email: Daniel_Johnston@siemens.com

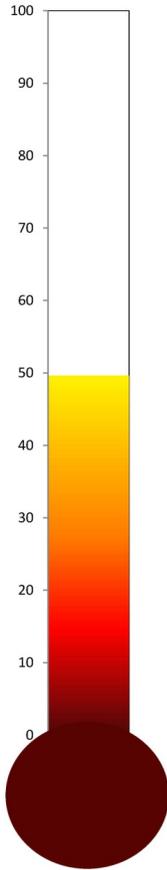
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HRC: 2011-2012
Research Promotion Goal



As of: 12/13/11

Goal	\$4,100.00
To Date	\$2,035.00



49.6% of Goal!

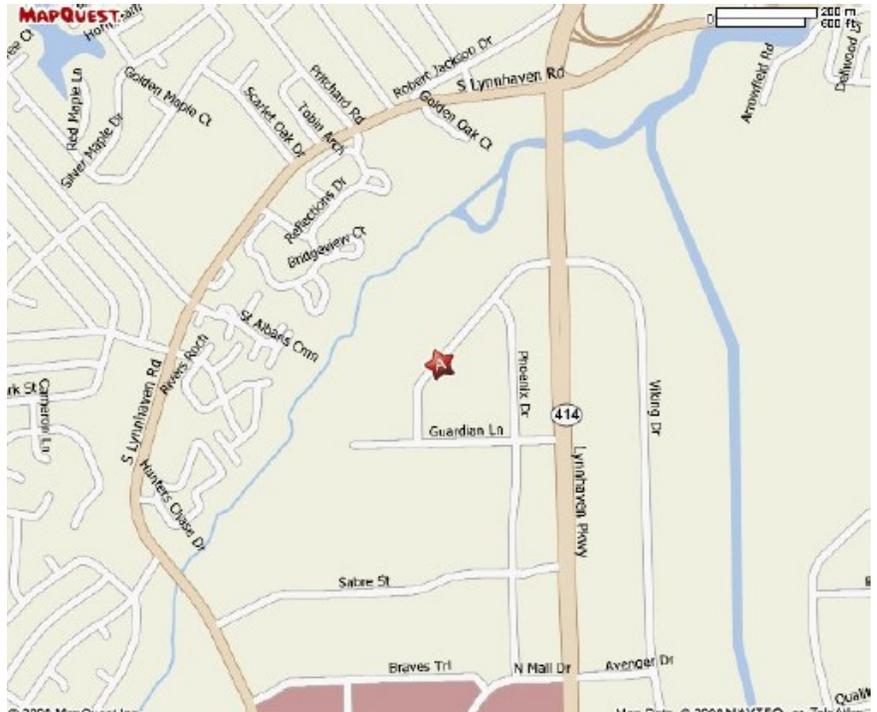
Committee Chairs

- Membership:** Douglas Henderson
- Student Activities:** Gary Hayden
- Historian:** Joe Hahn
- Refrigeration:** Open
- Research Promotion:** Forrest Morgan
- Technology Transfer:** Steve Lowe
- Website Editor:** Scott Almond
- Young Engineers in ASHRAE:** Carla Davila
- Chair Volunteer:** Jeremy Hollands
- Chair Volunteer:** Jeremy Thomas

- Board of Governors:**
Nancy Mitchell Veeck, Dan Pettway,
Al Veeck

Advantis Conference Room

448 Viking Drive
Virginia Beach, Virginia 23452



ASHRAE

<p>Standard 189.1 – Structure, Requirements, and Energy Savings Drury B. Crawley, PhD.</p> <p>March 06</p>	<p>Ground Source Heat Pumps</p> <p>April 3</p>
<p>Dedicated OA Systems Webcast</p> <p>April 19</p>	<p>ASHRAE Building Energy Quotient Dr. William Bahnfleth</p> <p>May 8</p>
<p>Spring Golf Outing Sleepy Hole</p> <p>May 17</p>	