



ASHRAE ACTION

ROANOKE CHAPTER NEWSLETTER

(WWW.ASHRAEROANOKE.ORG)

SEPTEMBER 2011

SEPTEMBER MEETING

**PLEASE JOIN US FOR A GREAT MEETING AT
BLUE-5 RESTAURANT!**

Tuesday, September 13th at LUNCH 11:45
Blue-5 Restaurant
312 2nd Street, Roanoke, VA 24011

SPEAKER:

John Castelvechi

TOPIC:

Airflow Measurement Technology

AGENDA:

Doors open at 11:30
LUNCH: 11:45 pm (Lunch is \$20)
BUSINESS MEETING AND PROGRAM TO FOLLOW

**RESERVATIONS MUST BE MADE BEFORE NOON
on September 12th**

TO Rick Hughes:

E-mail: RoanokeASHRAEMeetings@gmail.com
Phone: 540-342-1816

PRESIDENT'S CORNER

I WOULD LIKE TO THANK OUR NEW OFFICERS WESLEY SOUTHALL, AND JESSICA MURPHY, WHO STEPPED UP THIS YEAR TO FILL OUR VACANCIES IN THE BOARD. I WOULD ALSO LIKE TO THANK OUR RETURNING OFFICERS FOR CONTINUING TO SERVE THE ROANOKE CHAPTER. OUR OFFICERS HAVE ALREADY BEEN HARD AT WORK, ATTENDING THE CRC (CHAPTER'S REGIONAL CONFERENCE) IN SCRANTON, PA AND HAVING OUR SUMMER BOG MEETING. SO WE ARE READY FOR ANOTHER SUCCESSFUL YEAR.

THIS YEAR WE WILL CONTINUE TO HOLD OUR MONTHLY MEETINGS ON RELEVANT HVAC TOPICS WITH EXCITING SPEAKERS. OUR LOCAL ROANOKE MEETINGS WILL BE HELD AGAIN AT BLUE 5 IN DOWNTOWN ROANOKE. WE WILL BE HAVING SEVERAL MEETINGS OUTSIDE OF ROANOKE THIS YEAR. WE WILL BE REACHING OUT TO THE VIRGINIA TECH ASME (AMERICAN SOCIETY OF MECHANICAL ENGINEERS) STUDENT CHAPTER WITH A TOUR AT VT, WE WILL BE HAVING A MEETING WITH THE SHENANDOAH SECTION IN THE STAUNTON AREA, AND WE WILL BE HAVING A MEETING IN THE LYNCHBURG AREA.

I AM PLEASED TO LET YOU KNOW THAT AT CRC THE ROANOKE CHAPTER MAINTAINED OUR PREMIER CHAPTER STATUS BY MEETING THE REQUIREMENTS IN THE ASHRAE PRESIDENTIAL AWARDS OF EXCELLENCE PROGRAM, WE ARE THE ONLY CHAPTER IN THE REGION TO HAVE PREMIER STATUS. WE ALSO WON THE SORE FOOT AWARD FOR THE 3RD YEAR IN A ROW.

I LOOK FORWARD TO SEEING YOU ALL AT OUR UPCOMING MEETING, AND TO HAVING AN INFORMATIVE AND HELPFUL YEAR TO COME.

-KYLE LONGBRAKE

MARK YOUR CALENDERS:



October Meeting -- October 11th
Topic: VT Campus Tour
with VT ASME Student Chapter

November Meeting -- November 8th for Lunch
Topic: Data Centers - Hot Aisle Containment

BOARD OF GOVERNORS MEETING @ BLUE-5
SEPTEMBER 13TH, 11:15PM

2011/2012 Meeting Schedule

September 13 th	Lunch	Blue-5
October 11 th	Dinner	VT Tour
November 8 th	Lunch	Blue-5
December 13 th	Lunch	Blue-5
January 10 th	Dinner	Staunton
February 21 st	Lunch	Blue-5
March 13 th	Dinner	Blue-5
April 10 th	Dinner	Blue-5
"Student Night"		
May 8 th	Lunch	Blue-5
June 12 th	Dinner	Lynchburg

ASHRAE NEWS!

STANDARD 90.1-2007 ESTABLISHED AS NATIONAL REFERENCE STANDARD FOR FEDERAL, COMMERCIAL BUILDINGS BY DOE

ATLANTA – Commercial and high-rise residential buildings, including federal buildings, must now meet requirements in ASHRAE/IESNA's 2007 energy efficiency standard, under recent rulings issued by the United States Department of Energy (DOE) that finds the standard saves more energy than the 2004 version.

ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, has been established by the DOE as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act. As a result, states are required to certify by July 20, 2013, that they have reviewed and updated the provisions of their commercial building code regarding energy efficiency, including a demonstration that the provisions of their commercial building codes regarding energy efficiency meet or exceed 90.1-2007.

The DOE also has issued a rule that requires new federal buildings, for which the design for construction begins on or after Oct. 11, 2012, to meet the requirements of 90.1-2007.

Prior to the new rules, federal and commercial buildings had to meet requirements in the 2004 standard.

"We are pleased with this recognition that the 2007 standard saves more energy than the 2004 standard, thereby pushing the marketplace toward more energy-efficient buildings," ASHRAE President Ron Jarnagin said. "ASHRAE continues to build on the foundation of efficiency contained in Standard 90.1. We recently published the 2010 version of the standard, which results in more than 30 percent energy savings over the 2004 version. We currently are working on the 2013 standard, with a renewed focus on increasing the stringency to achieve a significant reduction in energy consumption."

The Illuminating Engineering Society (IES), cosponsor of the 90.1 standard, is also pleased with the DOE's favorable determination on the energy savings achieved in 90.1-2007, according to Rita Harrold, IES director of technology.

"As ASHRAE President Ron Jarnagin indicates, the work is ongoing through the dedication and expertise of voluntary consensus committee members from both organizations who continue to meet the challenge of developing additional requirements for energy efficient buildings," Harrold said.

"The DOE has determined that the quantitative analysis of the energy consumption of buildings built to Standard 90.1-2007, as compared to buildings built to Standard 90.1-2004, indicates national source energy savings of approximately 3.9 percent of commercial building consumption," according to the DOE. "Additionally, DOE has determined site energy savings are estimated to be approximately 4.6 percent."

The DOE noted that the newer version of the standard contained 11 positive impacts on energy efficiency. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. The positive impacts include:

- Increased requirements for building vestibules;
- Removal of data processing centers and hotel rooms from exceptions to HVAC
- Modification of requirements regarding demand controlled ventilation, fan power limitations, retail display lighting requirements, cooling tower testing requirements, commercial boiler requirements, part load fan requirements, opaque envelope requirements and fenestration envelope requirements.

ASHRAE and IES currently are working on the 2013 standard, having published the 2010 last year. Some 30 percent energy savings can be achieved using the 2010 version of Standard 90.1 vs. the 2004 standard. Without plug loads, site energy savings are 32.6 percent and energy cost savings 30.1 percent. Including plug loads, the site energy savings are estimated at 25.5 percent and energy cost savings 24 percent.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE and IES publish a revised version of the standard every three years.

ELECTRONIC NEWSLETTER

Any member with material to submit for inclusion in the monthly newsletter may send the information to:

Rick Hughes
30 W Church Ave
Roanoke, VA 24011

E-mail: RoanokeASHRAEMeetings@gmail.com
Phone: 540.342-1816
Fax: 540.344-3410

This is your newsletter. We welcome your contributions and commentary.

Material can include letters to the editor, member news, upcoming events, comments on chapter programs or issues, etc.

ATTENTION MEMBERS!

INTERESTED IN SAVING MONEY?

STAR CARDS ARE AVAILABLE FOR PURCHASE. PAY NOW AND **SAVE** LATER!

\$50.00 STAR CARD – ADMISSION TO ANY THREE MEETINGS

\$100.00 STAR CARD – ADMISSION TO ANY SIX MEETINGS

WANT TO SAVE EVEN MORE MONEY?

IN SUPPORT OF THE SOCIETY GAME (GREENING ASHRAE MEETINGS AND EXPOSITIONS) PLAN, THE ROANOKE CHAPTER WILL OFFER DISCOUNTS ON MEMBERS WHO CARPOOL OR USE ALTERNATIVE TRANSPORTATION TO ATTEND MEETINGS.

\$2.00 DISCOUNT FOR DRIVING A CARPOOL.

\$1.00 DISCOUNT FOR ANY OF THE FOLLOWING:

- RIDING IN A CARPOOL
- WALKING
- BIKING
- RIDE PUBLIC TRANSPORTATION
- DRIVE HYBRID VEHICLES
- DRIVE ALTERNATIVE FUELED VEHICLES

BE SURE TO LET **RICK HUGHES** KNOW IF YOU QUALIFY FOR THE MEETING DISCOUNT WHEN YOU PAY FOR THE MEETING.

ROANOKE CHAPTER ASHRAE

2011– 2012 OFFICERS AND GOVERNORS

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President	Kyle Longbrake	540-857-3100	Kyle.Longbrake@aecom.com
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Governor	Patrick Murdock	540-563-2828	pmurdock@trane.com

2011 – 2012 COMMITTEE CHAIRS

		Phone:	Email:
Shenandoah Section	Dave Miller	540-248-9207	david.miller@mcquay.com
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Webmaster	James Sledd	540-857-3100	James.Sledd@aecom.com

SEPTEMBER SPEAKER BIOGRAPHY:

JOHN P. CASTELVECCHI, P.E.

JOHN CASTELVECCHI IS CURRENTLY A SALES ENGINEER WITH SHULTZ AND JAMES, INC. A MANUFACTURER'S REPRESENTATIVE IN RICHMOND, VA. JOHN HAS BEEN WITH SHULTZ AND JAMES SINCE NOVEMBER OF 2001. JOHN'S EXPERTISE IS WITH LABORATORY SYSTEMS, CUSTOM AIR HANDLING UNITS AND HEATING, VENTILATING, AIR-CONDITIONING SYSTEMS, AIR FLOW MEASUREMENT, AND INDOOR AIR QUALITY ISSUES. PREVIOUSLY JOHN SERVED AS A PROJECT DEVELOPER FOR DOMINION'S EVANTAGE GROUP, A SENIOR ENGINEER FOR VIRGINIA POWER'S HVAC PROGRAMS FOR THE COMMERCIAL / GOVERNMENTAL SECTOR. BEFORE THAT HE WAS WITH HANKINS AND ANDERSON, INC. FOR 14 YEARS SERVING AS A LEAD PROJECT ENGINEER AND PROJECT MANAGER.

WITHIN ASHRAE, JOHN HAS HELD OFFICER POSITIONS WITH HIS LOCAL CHAPTER, BEEN A VOTING MEMBER OF GUIDELINE 0 AND 1, IS A CURRENT VOTING MEMBER OF TC 7.9 "BUILDING COMMISSIONING TECHNICAL COMMITTEE, AND IS CORRESPONDING MEMBER OF TC 9.6 "HEALTHCARE FACILITIES" AND TC 9.10 "LABORATORY SYSTEMS". ADDITIONALLY, JOHN SERVES ON THE TC 9.10 "LABORATORY DESIGN GUIDE" REWRITE SUBCOMMITTEE.

ASHRAE FACES AND PLACES



PATRICK MURDOCK ACCEPTING THE SORE-FOOT AWARD
ON BEHALF OF ROANOKE ASHRAE AT REGION III CRC



AND AS ALWAYS, THE ANNUAL
LEW EVANS GOLF TOURNAMENT
WAS A HUGE SUCCESS. THANKS
TO ALL WHO PARTICIPATED AND
VOLUNTEERED!