



ASHRAE ACTION

ROANOKE CHAPTER NEWSLETTER

(WWW.ASHRAEROANOKE.ORG)

JANUARY 2012

JANUARY MEETING

*PLEASE JOIN US FOR A GREAT MEETING AT
EDELWEISS GERMAN RESTAURANT IN STAUNTON!*

Tuesday, January 10th
Edelweiss German Restaurant
19 Edelweiss Lane
Staunton, VA 24401
Located Off I-81 @ Exit 213

TOPIC:

**Introduction to Magnetic Bearing
Chiller Technology**

SPEAKER:
Mark Doty

AGENDA:
Drinks: 5:30 PM
Dinner: 6:00 PM
Presentation: 7:00 PM
Cost: \$25

**RESERVATIONS MUST BE MADE BEFORE NOON
on January 9th**

TO Rick Hughes:

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

PRESIDENT'S CORNER

I hope that everyone had a Merry Christmas and a Happy New Year.

Last month we had an excellent presentation with Patrick Castelvechi speaking about ASHRAE 62.1. Patrick gave an informative and interesting presentation on the ASHRAE ventilation standard. We also had Gary Debes the region 3 membership promotion chair visit our chapter. Please encourage your coworkers and work associates to join ASHRAE so that we can get our membership back up.

This month we will be reaching out to the Shenandoah section of our chapter. We will be meeting at the Edelweiss German Restaurant in Staunton VA. It is a little over an hour north of Roanoke so please come out if you can. Mark Doty will be presenting on an interesting new advancement in our industry magnetic bearing technology. I hope that everyone can make it out to our January Meeting.

-Kyle Longbrake
President
Roanoke Chapter

MARK YOUR CALENDERS:



February Meeting -- February 21st
"INDIRECT AIR-SIDE ECONOMIZER CYCLE: DATA CENTER HEAT REJECTION"

KEITH DUNNAVANT

Lunch Meeting
11:45 AM
at Blue-5 Restaurant
DOWNTOWN ROANOKE

BOARD OF GOVERNORS MEETING @ BLUE-5

2011/2012 Meeting Schedule

September 13 th	Lunch	Blue-5
October 18 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	Holiday Inn
"Student Night"		
April 27 th	Golf Tournament Tee Time 1:00	Ashley Plantation
May 8 th	Dinner	Blue-5

EPA Approves Three Alternative Refrigerants to Replace Hydrofluorocarbons in Commercial and Household Freezers/First time that hydrocarbon substitutes will be widely used in the U.S.

Release Date: 12/14/2011

Contact Information: Cathy Milbourn milbourn.cathy@epa.gov 202-564-7849 202-564-4355

WASHINGTON – The U.S. Environmental Protection Agency (EPA) has added three hydrocarbons as acceptable alternatives in household and small commercial refrigerators and freezers through EPA's Significant New Alternatives Policy (SNAP) program. EPA took action after requests from Ben and Jerry's and General Electric, as well as A.S. Trust & Holdings, and True Manufacturing, a family-owned small business. These businesses are helping to clear the way for U.S. companies to use ozone layer-protective hydrocarbon refrigerants.

"Today's action is a great example of how businesses and EPA can work together to protect our planet and drive innovation," said Gina McCarthy, assistant administrator for EPA's Office of Air and Radiation. "This action increases the options for effective, climate-friendly refrigerants in the U.S."

Under the Clean Air Act, the SNAP program evaluates substitute chemicals and technologies for ozone-depleting substances (ODS). The three hydrocarbon refrigerants approved as acceptable substitutes, with use conditions, are propane, isobutane, and a chemical known as R-441A. These newly-approved refrigerants can be used to replace ozone-depleting chlorofluorocarbon (CFC)-12 and hydrochlorofluorocarbon (HCFC)-22 in household refrigerators, freezers, combination refrigerator-freezers, and commercial stand-alone units. SNAP is unique and globally recognized as the only program designed specifically to evaluate substitutes for ODS and to focus on the industrial sectors that use them.

Replacing older refrigerants will reduce greenhouse gas emissions by an estimated 600,000 metric tons by 2020, equal to the emissions from the annual electricity use of nearly 75,000 homes, and will help protect people's health and the environment.

At the recent 23rd Meeting of the Montreal Protocol Parties, EPA and the U.S. Department of State announced that 108 countries signed a declaration to address hydrofluorocarbons (HFCs). While HFCs are ODS substitutes, they are increasingly contributing to climate change. The approval of hydrocarbons in the U.S. is significant because hydrocarbons are more environmentally-friendly substitutes than HFCs.

Learn more about EPA's globally-recognized SNAP Program and the three substitutes at:

www.epa.gov/ozone/snap/

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 **RIK 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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2011 – 2012 COMMITTEE CHAIRS

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THIS MONTH'S SPEAKER:

OIL FREE COMPRESSORS ARE NOT A MYTH! THIS PRESENTATION WILL FOCUS ON THE TECHNOLOGIES THAT MAKE OIL-FREE COMPRESSORS POSSIBLE: MAGNETIC BEARINGS, DIRECT DRIVE PM MOTORS, ADVANCED CONTROLS, AND HIGH SPEED MOTOR DRIVES. EACH OF THESE TECHNOLOGIES HAS BEEN USED BEFORE IN OTHER INDUSTRIES BUT THEIR USE IN HVAC PRESENTS SOME INTERESTING CHALLENGES AND REWARDS

MARK DOTY RECEIVED BSAE AND MSME DEGREES FROM VIRGINIA TECH AND HAS WORKED IN THE HVAC INDUSTRY FOR 18 YEARS. DURING THIS TIME, HE HAS SERVED IN VARIOUS ENGINEERING ROLES RELATED TO CHILLERS, ROOFTOPS, AND HEAT EXCHANGERS. ALMOST EVERY PROJECT HAS INCLUDED TESTING, CONTROLS DEVELOPMENT, AND PERFORMANCE MODELING. FOR THE LAST SEVERAL YEARS, HE HAS BEEN WORKING WITH A TEAM TO DEVELOP MAGNETIC BEARING CHILLERS AT MCQUAY INTERNATIONAL.