



“News and Announcements from the Nashville Chapter of ASHRAE”

OCTOBER MEETING – SUSTAINABLE REFRIGERANTS

**October 2007
Chapter Meeting**

**TOPIC:
Sustainable
Refrigerants**

**Date:
Tuesday,
October 9, 2007**

**Location:
TN Engineering Center
@ The Adventure
Science Center**

**Meeting Time:
11:30 am to 1:00 pm**

**Speaker:
Tony Digmanese**

Fellow ASHRAE Members:

This time of year is enjoyed by all for many reasons: football, baseball playoffs, and beautiful weather. We as engineers have to do our part to ensure that generations to come will have the same great fall weather that we currently enjoy now.

Refrigerant sustainability is a topic that has been discussed on a global level a great deal in the past few years. This month's presentation will provide a 30-45 minute discussion from Tony Digmanese with unique insight into the direction of refrigerants with respect to the HVAC industry..

Mr. Digmanese received a Bachelor of Science in Mechanical Engineering from the University of Hong Kong. He then went on to earn his post graduate diploma in Marketing from the Institute of Marketing, London. He is currently the Chair of the ARI Chiller Product Section and a board member of ARI as well as a member of ARI's Government Affairs and International Affairs Committee. Mr. Digmanese is also a US TAG (Technical Advisory Group) member and a US representative to ISO/TC86/SC6 for HVAC products. He is currently a board member of the Alliance for Responsible Atmospheric Policy and a member of the Business Council for Sustainable Energy.

Tony will present on key background information on the Montreal Protocol as well as the Kyoto Protocol. He will detail the major refrigerant shift trends globally and identify environmental, safety, and performance justifications for these shifts. The presentation will specifically focus on HCFC-22, and HCFC-123 and their HFC alternatives for many HVAC applications.

As is typical for most monthly meetings, a certificate for 1.0 PDH will be offered. We will also have certificates created for those who attended last month's meeting.

Thank you and see you at the meeting,

Don Reaville
President, Nashville Chapter of ASHRAE

ASHRAE Local News

A Message from Earl Keith - Student Activities Chair

I am excited to begin a new year as Student Activities Chair. As the word "Student" implies, our work is so closely associated with all of the schools in our Chapter's membership.

We do several things during the year to promote math, science and engineering to the students in our area. We already:

- Offer cash awards at the two regional science fairs.
- Provide two \$1000 scholarships for ASHRAE inclined mechanical engineering college students.
- Have a student night / career fair for the college students.
- Subsidize meal costs at chapter meetings for students.

We need however, to do more. It is my vision and goal for us as chapter members to be more involved at the K-12 level in promoting math and science. There are many ways we can do that, and many of us are probably already doing some. Those of us with children still in school have an excellent opportunity to make contact with those kids and demonstrate how we believe that math, science, and engineering is fun, exiting, rewarding, and a needed part of their world.

AHSRAE has some excellent resources that can be of assistance. Even getting this information to teachers will be beneficial.
(<http://www.ashrae.org/students/page/754>)

If any of you are already doing this let me know. (Documenting this can help with our PAOE score).

ASHRAE National News

Energy-Saving Measures Proposed for ASHRAE/IESNA Standard 90.1

Energy-savings measures related to variable air volume and cooling towers are being proposed for Standard 90.1.

ANSI/ASHRAE/IESNA Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Fourteen proposed addenda to the standard currently are open for public comment.

If you would like to make a comment, please go to:
<http://www.ashrae.org/publicreviews>

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Protocol Parties Agree to Accelerated Phase-Out of HCFCs

Following a proposal and strong endorsement by the United States, the 191 Parties to the Montreal Protocol reached an historic agreement to accelerate efforts to ensure recovery of the stratospheric ozone layer at a meeting in Montreal that concluded Friday, September 21, 2007. The Parties agreed to speed up by a decade the phase-out of hydrochlorofluorocarbons (HCFCs). HCFCs were originally considered transition chemicals used as substitutes for chlorofluorocarbons (CFCs) because they deplete the ozone layer less. The agreement also holds the promise of substantial benefits for the climate system as it will spur development of new alternatives to HCFCs that have low or no global warming affect.

Specifically, the Montreal Protocol Parties agreed:

- That developing countries will push forward setting their baseline for production and consumption of HCFCs from 2015 to 2009-2010.
- That developing countries will also freeze production and consumption of HCFCs in 2013 instead of 2016.
- That developed countries will phase out production of HCFCs by 2020.
- That developed countries will reduce HCFC consumption by 75% in 2010, 90% in 2015 with a phase out in 2020.
- That developing countries will reduce their HCFC production and consumption by 10% in 2015, by 35% in 2020, by 67.5% in 2025 with a phase-out in 2030.
- The overall effect of these measures will be to reduce potential emissions of ozone damaging chemicals by approximately 47% from business as usual.
- With this agreement, the world will avoid emitting nearly one million tons of ozone depleting chemicals into the atmosphere.
- Assuming the adoption of substitute refrigerants that are commercially available today, with this agreement, the world will avoid nearly 3,000 million metric tons of carbon dioxide equivalent emissions into the atmosphere.
- If countries transition to new refrigerants not yet invented that have no global warming impact, this agreement will enable the world to avoid as much as 16,000 million metric tons of carbon dioxide equivalent emissions into the atmosphere.

As part of this historic agreement, Montreal Protocol Parties also agreed that funding for developing countries from the Protocol's Multilateral Fund will be stable and sufficient to enable them to comply with the accelerated phase out.

For more information, please go to: <http://www.ashrae.org/pressroom/detail/16461>

ASHRAE News Items

Society Dues Increase: The Board has raised ASHRAE Society dues effective July 1 to \$165. This affects society dues only, Nashville Chapter dues will remain at \$80. This is the first increase in 3 years. Relatively modest and less than most other professional Societies. Hint: You can prepay your dues up to 3 years ahead and avoid the dues increase. Contact ASHRAE headquarters to do this. If you have not paid for this year yet, please log on to the ASHRAE Website and do so.

Upcoming Chapter Event Schedule for 2007

2007

November 13, 2007:	Kim Shinn: "Mechanical Engineers' Impact on LEED" – 1.0 PDH
December 11, 2007:	Nissan HQ Site Tour hosted by Skanska
January 8, 2007:	Paul McCown: "Retro-commissioning" – 1.0 PDH
February 12, 2007:	Student Night
March 11, 2007:	Tob Neuman: "Metering Systems" – 1.0 PDH
April 8, 2007:	Chris Muller: "IAQ and Energy Conservation" – 1.0 PDH
May 13, 2007:	Speaker TBD: "LEED for School Buildings" – 1.0 PDH

The meetings are held at the Tennessee Engineering Center at 11:30 AM to 1:00 PM, except as noted. The Tennessee Engineering Center is located in the Adventure Science Center at, 800 Fort Negley Blvd., Nashville, TN 37203. Please RSVP to these programs. The meal cost is included in your yearly dues, but we still have to order the correct amount of food for each meeting. The monthly newsletter will give more details concerning these meetings.

Costs:

Members who have PAID local chapter dues:	Included
Members who have NOT PAID local chapter dues:	\$15.00
Guests:	\$15.00

Chapter History

A Little Chapter History - by Michael J. Saunders

We would like to start providing brief articles about members of our Chapter, special equipment and buildings of historical interest, and companies as well. If you have any suggestions of a HVAC system, a building, a company or a person you feel should be featured, please email me at msaunders@leecompany.com and we will incorporate them as space becomes available in the monthly Newsletter.

This month we would like to feature, **Yvonne Y. Clark (YY)**. She is a member with the local Nashville Chapter of ASHRAE. She also earned other special recognitions in the early 1970's.

Yvonne was raised in Louisville, Kentucky. Her father was a Physician & Surgeon and her mother was a journalist. As you all know, she is always up for a challenge and she graduated high school at the age of 16. In 1951, YY was the first female in the Mechanical Engineering Department who received her Bachelor of Science degree at the historically black Howard University in Washington, D.C. Later in her career, she went back to school and enrolled at Vanderbilt University in Nashville, TN and in 1972, she gained the distinction of being the first African American woman to earn a master's degree in the engineering management program under the Mechanical Engineering umbrella. She also was the first African American to join the Southern Society of Women Engineers (SWE) organization and is a Fellow and lifetime member and in 1952 is noted for being the one to integrate the organization.

She is currently an associate professor at Tennessee State University and teaches in the mechanical engineering program. She works closely with the students of TSU and was the Student Activities Advisor for our Chapter for as long as I can remember. She encouraged students to attend the chapter meetings and also helped to choose and disseminate the student scholarship information the Nashville Chapter awards each year.