



Capitalaire

www.nccashrae.org

The National Capital Chapter of the American Society of Heating, Refrigerating, and Air Conditioning Engineers

President's Corner

On November 12th, the National Capital Chapter of ASHRAE held its 10th annual joint Trade Show with the Mechanical Contractors Association of Metropolitan Washington. There were 25 contractors, vendors and trade organizations were in attendance. This Trade Show always gives us a great opportunity to meet other professionals in the HVAC field and learn about the latest technologies. We are thankful to MCAMW for inviting us and including us in this event for 10 years now.



This time of year creates a great opportunity for all of us to think of things we are thankful for and give back to our communities and the less fortunate ones. I wish everyone a safe and joyful holiday season and I ask you to consider supporting the ASHRAE Society through tax deductible donations to our many research programs or volunteer in the work of our Chapter organization.

The Winter Party Committee has been working hard on organizing a fun and festive event in January. The Winter Party will be held on Saturday, January 9, 2010 in the Hotel Monaco in Old Town Alexandria, VA. Sponsorship is available.

Please remember that the ASHRAE Technology Awards program application deadline is in March, and

now it is time to think of potential projects for submission. The program provides an opportunity to recognize ASHRAE members who design and/or conceive innovative technological concepts; communicate innovative systems designs to other ASHRAE members.

December Meeting

Our December 9th meeting will be back at the Arlington Hilton and will bring two frequently requested topics. The PES will cover Acoustics and the Dinner program will cover the latest news about Refrigerants.

The theme of the December meeting is Presidents/Membership. We invite all past Presidents of NCC to join us and let us honor your work and continued support of our Chapter. Their commitment and leadership made the National Capital Chapter one of the most successful and prospering chapters in the Society.

Please remember to pre-register online for these programs before December 4th.

Best regards,
Kinga Porst
NCC President – 2009-2010

PES: HVAC Acoustics for Applied Equipment

This presentation will review how to improve acoustics in mechanical design including how to quiet outdoor mechanical equipment as well as acoustic design for indoor units. Emphasis will be placed on large Applied Equipment such as packaged air conditioning units and chillers. Topics will include: sound design 101; interior and exterior mechanical equipment design applications; proper design and FAQ's; acoustic retrofits, and installation examples.

Other topics of discussion will include:

- Learn how to reduce broadband overall noise levels and control compressor tonal frequencies
- Learn how to specify sound attenuation treatments to meet project requirements
- Learn how to integrate sound treatment of chillers while minimizing the impact on efficiency and energy consumption
- This training session will also help in creating realistic noise expectations for the building owner, occupant and surrounding communities.

Speaker: Kristan (Kris) G. Kollevoll

Kristan (Kris) G. Kollevoll is a graduate of Princeton University. Kris started with BRD Noise and Vibration Control, Inc., as a Sales Engineer in 1982 and became Sales Manager and Vice-President in 1988. In 1994, upon the death of Bernard R. Deschaine, founder of the company, Kris became President of BRD. Kris is affiliated with the Acoustical Society of America and Institute of Noise Control Engineering and has also served as an outside consultant for the training of OSHA Citation Officers. Kris has worked extensively to aid such prominent companies as DuPont, Alcoa, Johnson & Johnson, Hewlett Packard, Proctor & Gamble, as well as a long list of HVAC OEMs in designing and manufacturing long-term engineered noise control solutions. Around 1988, Kris formed a separate division to focus on developing proven solutions for recurring noise problems. His company is a recognized leader in the field of noise reduction systems. Kris is a frequent presenter at ASHRAE Chapter meetings.



National Capital Chapter of ASHRAE 2009-2010 Meeting Schedule

Date	Theme	PES Program	Dinner Program	Location
Dec. 9	Presidents/ Membership	Accoustics (Sound and Vibration)	Refrigerants	Hilton Arlington
TBA	Winter Party			TBA
Feb. 10	Sustainability/ USGBC Joint Meeting	Design of Commercial Ground Source Heat Pumps	Integrated Form of Agreement (IFOA) and Integrated Project Delivery (IPD)	Hilton Arlington
Mar. 10	Students/ Refrigeration	Testing and Balancing	ASHRAE Research Project 1292 (Series vs. Parallel Boxes) and Energy Use/LEED Ramifications	Hilton Arlington
April 14	Research	Clean Room Presentation	Energy Conservation Labratories	Hilton Arlington
May TBA	Tour	TBA	TBA	TBA

Dinner Program: Looming Refrigerants Changes— Again (and Again after That)

Several changes to the recommended refrigerants have occurred over the years. This presentation will address the issues that forced successive changes from familiar fluids as refrigerants first to predominantly CFCs and ammonia, then to a mix HCFCs, HFCs, and an array of “natural refrigerants,” and then to primarily the last two of them. Even though still underway, the shift to HFCs now is imperiled and forcing focus on yet another generation of refrigerants, many of which are doomed even before they are commercialized. The speaker will discuss the status and outlook for refrigerants as well as needed changes that we should all be looking at to weather the turmoil.

Speaker: James M. Calm, P.E.

James M. Calm, P.E. is an Engineering Consultant out of Great Falls, VA, and a member of the National Capital Chapter. Jim began his career in design, construction, and operation of heating, air-conditioning, and refrigerating systems both for the U.S. Air Force and as an independent consultant. He then shifted to research with focus on heat pumps and other energy-conserving systems at Argonne National Laboratory, the Electric Power Research Institute, and the Institut CERAC in Switzerland. He later served as Technical Manager in the International Energy Agency Heat Pump Center in Germany and then as Vice President of Research and Technology in the Air-Conditioning and Refrigeration Institute (ARI, now AHRI), during which he founded the Air-Conditioning and Refrigeration Technology Institute (ARTI) and initiated a number of cooperative industry programs such as the Materials Compatibility and Lubricants Research effort to enable accelerated introduction of alternative refrigerants. He established an independent engineering consulting practice in 1991 and has since worked in more than 25 countries with significant

focus on refrigerants performance, safety, and environmental impacts.

Jim has participated in a number of consultative sessions, working groups, meetings, and scientific and technical assessment panels for the Montreal and Kyoto Protocols. He currently serves as a member of the United Nations Environment Programme (UNEP) committee assessing technical options for refrigeration, air conditioning, and heat pumps and since 1989 for five successive assessments on one or more panels and as lead author for refrigerants and heat transfer fluids. Jim has authored or co-authored more than 150 technical publications; some republished in as many as ten languages, and has presented more than 200 seminars on refrigerants and lectured on air conditioning, heat pump, and refrigeration systems in 30 countries. He holds Bachelor (cum laude) and Master of Science degrees from Tufts University. Among other recognitions, Jim received both the Distinguished and Exceptional Service Awards from ASHRAE, Richard C. Schulze Distinguished Service Award from ARI (now AHRI), DeFlorez Award for Human Factors Engineering, and the Alumni Award for Leadership from Tufts University.

BRD. Kris is affiliated with the Acoustical Society of America and Institute of Noise Control Engineering and has also served as an outside consultant for the training of OSHA Citation Officers. Kris has worked extensively to aid such prominent companies as DuPont, Alcoa, Johnson & Johnson, Hewlett Packard, Proctor & Gamble, as well as a long list of HVAC OEMs in designing and manufacturing long-term engineered noise control solutions. Around 1988, Kris formed a separate division to focus on developing proven solutions for recurring noise problems. His company is a recognized leader in the field of noise reduction systems. Kris is a frequent presenter at ASHRAE Chapter meetings.

**NCC ASHRAE'S
WINTER PARTY - 2010**

at the
Hotel Monaco - Alexandria

480 King Street
Alexandria, VA 22314
Reservations 800.368.5047
Hotel 703.549.6080



JANUARY 9, 2010

6:00 PM
\$1,625 per table
(Includes dinner for 10 & event sponsorship)

Contact Lee Guill at 703.328.9037 by December 10th

Special Winter Party Room Rates: \$99.00 for Queen, King and Double Rooms

Available until December 10th.

Guests can call 1-800 Kimpton to reserve under ASHRAE winter party.