



# Capitalaire

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

## President's Corner

We had a great kick-off meeting on September 9th at the Arlington Hilton. Both the PES Seminar and the Dinner Program was very well attended. Thank you again to Johnson Controls for sponsoring the bar. A special thanks goes to our speakers, William J England and King Thomas. William J England presented the PES Program on the challenges faced in developing an effective solution to balancing for variable flow. The packed PES program was followed by a presentation from King Thomas on the future of controls. Mr. Thomas gave us a peak into the future by discussing strategies for reducing energy use, harnessing wireless technologies and the convergence of IP based systems.

The Board and the Committees will make extra efforts this year to increase membership to our Chapter. Please remember to pay your Chapter dues when you renew your membership. Last month we announced a new offer; between October and December we will give out raffle tickets to our Winter Party to anybody who brings a new member to one of our Chapter meetings. Please see our website for details. Also, stay tuned for announcements about our YEA (Young Engineers in ASHRAE) social events.

The ASHRAE Technology Awards program application deadline is in March, but 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;

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. Sponsorship is available.

All the achievements of ASHRAE are made possible by the hard work of volunteers. We always welcome new people to our group. I encourage everyone who is interested in getting involved with the local chapter to talk to me or any of the Board Members. We have several positions open. The time invested in working in a committee is worthwhile because of the personal and professional development.

## October Meeting

The Theme of our October 14th meeting will be Awards and I am looking forward to celebrating another successful ASHRAE year with you. Jim Grant, Past President of the Chapter will recognize Committee Chairs, Governors and Officers from the 2008-2009 year and acknowledge the members who received awards from our region. National Capital Chapter won several awards at the Chapter Regional Conference in August including the Presidential Award of Excellence and Honor Roll. Scott Houghton, Membership Chair won the Blue Ribbon Award and the Wingman Award. Dave Cooper, Research Promotion Chair won the Pinnacle Award, Top Dog Award, Full Circle Chevron Award, Silver Chapter Investor Award and the Certificate of Achievement Award.

The October PES program will cover Onsite Renewable Energy and the Dinner program will be about The International Energy Conservation Code.

Please remember to pre-register online for these programs before October 9th.

Best regards,  
Kinga Porst  
NCC President - 2009-2010

# PES Session: Onsite Renewable Energy

Over the past 40 years, relative to significant reductions in manufacturing and transportation systems, there has been little reduction in the specific fuel consumption indices, energy utilized per sq. ft. per year, by buildings. “Changes” in building system designs have not contributed to improvement in national energy security, have not improved specific fuel consumption, and have not lowered global warming and other airborne pollutants in maintaining performance. Minimizing or eliminating non-renewable fossil fuel utilization is the key sustainable characteristic a building design should purport. Improvements in other building performance characteristics are necessary but not sufficient in achieving true sustainability. It follows that minimizing use of grid generated electricity in building operation is essential for sustainability improvements.

**Speaker: Dr. James D. Freihaut**

Dr. Freihaut is the Director of the DOE Mid Atlantic Clean Energy Application Center - Center for High Performance

Building Systems Research at The Pennsylvania State University. His current research interests include combined heat and power system implementation, dispersion properties of indoor particulates, and surface-to-air aerosolization of allergen containing particles. He also serves as Director of the Center for High Performance Building Systems at Penn State. Dr. Freihaut’s education includes a B.A. in Philosophy and Chemistry from Christian Brothers College, a M.Sc. in Natural Science and Physical Chemistry from Rensselaer Polytechnic Institute, and a Ph.D. in Fuel Science from The Pennsylvania State University. He has over 20 years of prior industry experience.

**ANNOUNCEMENT:** The chapter has decided to offer a special raffle drawing. We’re offering two tickets to the annual winter party. Those eligible are new members if they sign up at a dinner meeting and the existing member who brings the prospective new member to the dinner meeting. The drawing will take place at the December dinner meeting.

## Dinner Topic: The International Energy Conservation Code

Sustainable and green building techniques are becoming more prevalent in the design and construction of commercial and residential buildings. Construction codes have been developed and put in place as recognized laws, regulating the design and construction processes. The International Code Council has developed a whole family of codes- the IBC, IMC, and IPC the more common, but also the International Energy Conservation Code.

Recent trends in energy conservation have renewed interest in improving compliance with the IECC. This discussion will cover some necessary background on codes, the IECC, and where this code interrelates among the other construction codes, what jurisdictions it is enforced, and where it is likely to be headed. We will also discuss some little known aspects of this code and some other movements in local energy policy.

It is likely that increased mandatory compliance with the IECC and similar local conservation poli-

cies may impact future projects and represent a major paradigm shift for the consulting MEP engineer.

**Speaker: Michael A. Lo Presti, PE, CSDP**

Michael Lo Presti has served as President and Principal Engineer of Presti & Company, Inc. since he founded the company in 1997. With more than twenty years of engineering experience, he has established expertise in MEP systems design, evaluation, and analysis of complex building systems; project and construction management and oversight; and sustainable design including economic analysis. He has significant experience in building modeling analysis and energy code compliance and in MEP Design, MEP installation and fabrication, field construction, and quality assurance and control.

Mike is a licensed professional engineer in 8 states including Virginia, DC, and Maryland and a member of ASHRAE, ASME, AEE, ICC, ASTM, and NSPE.



# National Capital Chapter of ASHRAE

## 2009-2010 Meeting Schedule



<b>Date</b>	<b>Theme</b>	<b>PES Program</b>	<b>Dinner Program</b>	<b>Location</b>
Sept. 9	Membership/ YEA	Hydronic Systems	Future of Controls	Hilton Arlington
Oct. 14	Awards	Onsite Renewable Energy	Basic intro to Codes IECC and 90.1	Hilton Arlington
Nov. 12	Joint Meeting	Steam Systems Part II	Joint MCA/ASHRAE Trade Show	Bethesda Marriott
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 Laboratories	Hilton Arlington
May TBA	Tour	TBA		TBA

**Visit [www.nccashrae.org](http://www.nccashrae.org) for Monthly Updates**



## **JOIN ASHRAE & MCAMW MEMBERSHIPS AT THE 10TH ANNUAL ASHRAE & MCAMW JOINT TRADE SHOW**

**Date: Thursday, November 12, 2009**

**Time: 5:00 to 9:00 pm**

**Location: Bethesda Marriott Hotel  
in the Congressional Ballroom  
Bethesda, Maryland**

Since this Joint Trade Show event has been so popular during the past nine years, ASHRAE will join MCAMW in sponsoring an industry wide trade show again this year. Both associations will host this trade show in lieu of holding their November monthly business meetings.

Twenty vendors (see list below) have reserved booth space to date....so mark your calendars now to attend an event-filled evening which promises to be information packed. Come early! Cocktails and heavy hors d'oeuvres will be served throughout the evening.

### **Participating Trade Show Vendor/Suppliers**

Boland  
Carrier Air Conditioning  
Chesapeake Systems  
Complete Boiler Systems  
Cummins-Wagner Co., Inc.  
Sam DeSanto Co., Inc.  
Ferguson Enterprises, Inc.  
Flow Design, Inc.  
Grinnell Mechanical Products  
HAVTECH

Honeywell  
Johnson Controls, Inc.  
The Joyce Agency  
The Morin Company LLC  
Potomac Environmental Technologies  
S.J. Rafferty Co., Inc.  
Siemens Building Technologies  
SMACNA Mid-Atlantic Chapter  
Victaulic  
N.H. Yates & Co.

***Reminder Reminder Reminder***

**Send your registration by e-mail to: [NCCASHRAE@YAHOO.COM](mailto:NCCASHRAE@YAHOO.COM).**