

Capitalaire

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

Monthly Newsletter



Developing Leaders thru Mentoring

2011 – 2012 National Capital Chapter of ASHRAE

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Capitalaire is the publication of the National Capital Chapter of ASHRAE. Capitalaire welcomes input from its readers. Please send all communications to:

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President's Corner

As we start the New Year, we hope we all have a prosperous 2012. We have a great second half of the year planned. The Winter Party planning committee is in the process of planning the 6th annual Winter Party on the 28th of January. As in years past, this festive event will be at the Hotel Monaco in Alexandria.

In the second half of the year, our research chair will be kicking off our annual research campaign. Historically, the National Capital Chapter has been one of the biggest contributors to ASHRAE research. Our members contributed nearly \$50,000 to research last year with over \$150,000 research grants currently being performed by National Capital members. The funding from ASHRAE research impacts the industry by providing updates for ASHRAE handbooks, standards, and guidelines. Without our contributions to ASHRAE research, just imagine our ASHRAE handbooks not being available as the coveted resource to the industry. To get more information on our research promotion program please contact Jeff Colby at researchpromotion@nccashrae.org.

ASHRAE is currently seeking candidates for a one year fellowship, with the possibility of a second year extension, at the Department of Energy. Ideal candidates would have a technical background with up to 10 years' experience in the building industry. For more information, contact Mark Ames, Manager of Government Affairs for ASHRAE, at mames@ashrae.org.

In the second half of the year, our sustainability chair is looking for the chapter to take a more active role in promoting the society's sustainability goals. One of the programs the chapter is looking into is collaborating with other local organizations, such as Hands on DC to promote sustainable community events. Please check the website for more information or contact Roger Chang at sustainability@nccashrae.org.

We would also like to thank and encourage everyone to continue to make reservations by the deadline. As a commitment to our members who make their reservations online, we will be holding a drawing for an I-Pad at the April 2012 meeting.

Chapter members who register and make an online payment by the meeting registration deadline, which is the Friday prior to the monthly meeting, and will receive one entry for each month into the drawing for the I-Pad.

Thank you again for your commitment and support to at the National Capital Chapter.

Best Regards,
Dunstan L. Macauley, III
President – National Capital Chapter
2011 – 2012

ASHRAE Announces Energy Modeling Conference, Call for Presenters

ASHRAE's Energy Modeling Conference – Tools for Designing High Performance Buildings is slated for Oct. 1-3, 2012 in Atlanta. The conference will guide building design professionals about what does and does not work when using currently available modeling tools to design and analyze buildings and their energy using systems.

“The conference will provide the design professional with ‘workarounds’ that may be applied to improve the results of their modeling results when their modeling tool of choice may not be capable of modeling some of the more unique or hybrid buildings or energy using systems being used in high performance buildings today,” Dennis Knight, conference chair, said.

With a focus on case studies and real world examples, the conference will allow an exchange of ideas among design professionals and software developers to facilitate understanding of current modeling tools and their capabilities and limitations and identify the need for new tools and improvements to existing modeling and simulation tools. The conference will guide design professionals toward developing in-house modeling checklists and quality control procedures to improve their competence and confidence in making decisions and recommendations based on modeling in their day-to-day practices.

Building on the successful Energy Modeling Conference format in April 2011, this conference will begin with an interactive session with modeling software developers presenting common modeling scenarios on how their specific software can model a scenario, whether there are any limitations and what might be the best work around and exceptional modeling practices to obtain acceptable results when the tool cannot model the scenario out-of-the-box.

Call for Presenters

ASHRAE seeks presentations on case studies and actual projects and how they were analyzed and designed using modeling tools as well as integrated and interoperable modeling tools to best optimize buildings and energy-using systems. Presentation abstracts are requested on the following topics:

- HVAC load analysis
- Energy modeling
- Side-by-side software provider presentations on their ability to address specific modeling system types and applications and energy simulation programs
- Code and standards compliance issues
- ENERGY STAR, LEED® and other high performance building guidelines' impacts on models
- Innovative system modeling: chilled beams, water source heat pumps, renewables, variable refrigerant flow, cogeneration, labyrinths, electronically commutated motors
- Integration of analytic modeling tools with building information modeling
- Exceptional modeling techniques for when tools just do not work
- Simplified and rapid modeling techniques that may be applied for early analysis.
- Integration of daylighting, computational fluid dynamics and other exceptional modeling techniques and results into HVAC simulations
- Life cycle cost analysis

To submit a presentation application, visit www.ashrae.org/EMC2012. Information required for the submission are a 300-500 word abstract, 100 word “promotion” abstract and other information.

Presenters will give an oral presentation, have their presentations posted online for conference attendees and receive a substantially-reduced conference registration rate.

Presentation Schedule:

Full Page Abstracts due: Feb. 15, 2012

Notification of abstract decisions: March 15, 2012

Accepted speaker forms due: April 15, 2012

Presentations due: Sept. 1, 2012

Conference: October 2012



National Capital Chapter of ASHRAE

2011 – 2012 Meeting Schedule



Dates	Theme	PES Program	Dinner Program	Location
Tuesday Sept. 13	YEA / Membership (Joint Meeting with IEEE)	Net Zero Energy Building Design	Emissions Trading	Hilton Arlington
Wednesday Oct. 19	Awards / Research	Designing Building Automated Controls – Part I	Thermal Storage Systems	Hilton Arlington
Wednesday Nov. 9	Trade Show (Joint Meeting with MCA)	Trade Show		Bethesda Marriott
Wednesday Dec. 7	President’s / Membership	Designing Building Automated Controls – Part II	Combined Heating & Power Systems	Hilton Arlington
Saturday Jan. 28	Holiday Party	Holiday Party		TBD
Wednesday Feb. 8	Sustainability (Joint Meeting with USGBC)	Radiant Cooling and Dedicated Outdoor Air Systems (DOAS)	Energy Modeling Case Study	Hilton Arlington
Wednesday Mar. 14	Students / Refrigeration	Panel Discussion – Building Energy Monitoring	BIM	Hilton Arlington
Wednesday Apr. 18	Research / YEA	Variable Refrigerant System Design	Air Side Energy Recovery Systems	Hilton Arlington
May (TBA)	Tour	Technical Tour		TBD