



Capitalaire

www.nccashrae.org

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

President's Corner

We have officially entered into the long awaited new season of spring and I hope you all get to enjoy some outdoor activities. Your ASHRAE Chapter has organized some great activities for the next couple of months, two Chapter meetings, a tour and a golf tournament. We hope to see you in many of these events.

Please remember to watch ASHRAE's webcast "Right from the Start – Commissioning for High Performing Buildings." on Wednesday April 21st, 2010. You can earn three (3) Professional Development Hours (PDHs) or (3) AIA Learning Units by attending the webcast.

As the end of the 2009-2010 year approaches for the National Capital Chapter's monthly meetings, I would like to remind you that there are three more chances to receive PDH certificates through the PES programs held before the dinner program; March the 10th, April 14th and the newly added May 12th meeting. Please see the calendar on the Chapter's website for more information (www.nccashrae.org).

TEGA Committee can still accept last minute applications for the ASHRAE Technology Awards program. 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. Please contact Natalya Olson (nvolson@gmail.com) with any questions.

We still have a few openings for the June 4th NCC golf tournament. If you have not registered and would like to play please see the attached registration for in

this newsletter.

I would like to personally thank all of our tireless ASHRAE volunteers for all their hard work. It is their commitment, dedication and hard work that keep our chapter running smoothly and successfully. It is a great time to get involved as we are getting ready to gear up for the next ASHRAE year. We have several great opportunities within the various committees and we will offer training in August. We can all speak of the fantastic personal development and networking opportunities we found working for the Chapter. Please get in touch with any of the Board members if you are interested.

April Meeting

Our next Chapter meeting will be on April 14th at the Arlington Hilton. The theme of the April meeting is Research Promotion.

During our April 14th dinner program we will introduce this year's Charles Kannapell Student Scholarship recipients.

The PES program will cover Clean Rooms and the Dinner Program will be a presentation on Energy Conservation Laboratories.

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

*Best regards,
Kinga Porst
NCC President – 2009-2010*

PES: Clean Room HVAC – Design Fundamentals for Contamination Control

Ensuring that a cleanroom meets its desired cleanliness objectives requires an understanding of the key elements of cleanroom designs. This course will provide a detailed description of HVAC system fundamentals, including a discussion of primary system components such as air filtration, good air flow management and room layout. Participants will receive an overview of critical parameters for products and processes that can be affected by HVAC, and explore the basic concepts of controlling these parameters using properly designed HVAC control systems.

Speakers: David Johnson, PE and Dunstan Macauley, PE

David Johnson is the Vice President of Encon Group. In 2004, David Johnson joined Encon as Director of Life Sciences, while at the same time continuing his role as Senior Mechanical Engineer.

Mr. Johnson has over 18 years of cGMP manufacturing experience in engineering

design, project management. David has been involved with all aspects of biopharmaceutical facilities, equipment, and infrastructure design, construction, validation, and plant manufacturing operations. Mr. Johnson held the positions of Director of Engineering for QIAGEN Inc. and for Chesapeake Biological Laboratories, Inc.

Mr. Johnson's particular specialty within the biotech industry is the development and production of

process sensitive biopharmaceutical products in a cGMP environment. His experience also includes the design, construction, validation, and start-up of over \$200 million of new manufacturing, laboratory, infrastructure and support facilities.

In 1989, Mr. Johnson received his Bachelor of Science degree in Mechanical Engineering from the University of Maryland. He is a registered Professional Engineer in the State of Maryland. His professional affiliations include the Association of Facility Engineers and the International Society for Pharmaceutical Engineering.

Dunstan Macauley has over 15 years of experience in the HVAC industry. His career has focused on the evaluation, design, and specification of mechanical systems for commercial, educational, pharmaceutical, and institutional facilities. Mr. Macauley joined Encon Group as a Senior Mechanical Engineer and currently is the head of the Mechanical Engineering Department.

Mr. Macauley has a Bachelor of Science degree in Mechanical Engineering from the University of Maryland and is a registered professional engineer. Mr. Macauley is also a LEED Accredited Professional and has also received the ASHRAE High Performance Building Design Professional certification. He is a member of The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and The International Society for Pharmaceutical Engineering (ISPE), and currently serves as Vice President of the National Capital Chapter.



Contribute to the NCC ASHRAE Flickr Pool

Add the tag "NCC ASHRAE" to your flickr uploads

Check out our flickr group page:
<http://www.flickr.com/groups/nccashrae/>



Discover Engineering Family Day 2010

Dinner Program: Energy Conservation Laboratories

The presentation shall provide an overview of the current legislation by the State and Federal Government in its requirement to reduce energy use and will include changes to industry guidelines which effect energy within laboratories. The application of the Aircuity multiparameter sensing system within wet chemistry and vivariums will be presented along with the impact on the reduction of energy within labs. Case studies of the associated energy reduction for various institutions will be highlighted.

Speaker: Walt Thompson

Walt Thompson is a partner with Metropolitan Equipment Group and has 20 years of experience in the design and implementation of energy efficient laboratory control systems. Walt has been involved in the Energy Retrofit market for laboratories for 15 years and has helped Engineers and End Users redesign their laboratories to reduce energy consumption while maintaining safe practices and ensuring that the designs meet local and govern-



National Capital Chapter of ASHRAE

2009-2010 Meeting Schedule

Date	Theme	PES Program	Dinner Program	Location
Feb. 10		Cancelled Due To Weather		
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 12		Design of Commercial Ground Source Heatpumps	ASHRAE Standard 189	Hilton Arlington
Tour	TBA	TBA		TBA

Visit www.nccashrae.org for Monthly Updates

ASHRAE-NCC Spring Golf Outing

Friday, June 4, 2010



P.B. Dye Golf Club: Ijamsville, MD



www.pbdyegolf.com

SCHEDULE:

6:45 – 7:30 a.m. Registration, Coffee & Danish Station
8:00 a.m. Shotgun Start
12:00 p.m. Lunch Buffet w/ Awards

REGISTRATION:

Registration deadline is April 30th. Please see the registration forms attached for information regarding fees, sponsorship opportunities, and where to send forms and payment.

DIRECTIONS:

Refer to course website for map and directions. (<http://www.pbdyegolf.com/play/directions/>)

RULES:

All rules and regulations of the P.B. Dye Golf Club shall be in effect. All golfers are required to have **soft spikes** on their golf shoes. All golfers participating in the outing are required to wear golf shoes, shirts with collars and sleeves, and appropriate slacks, shorts, or skirts.

INCLEMENT WEATHER POLICY:

In the event that the Tournament is canceled due to inclement weather, as determined by P.B. Dye Golf Course, the tournament will be rescheduled. All registrants are expected to attend. If weather conditions are questionable **call P.B. Dye Golf Club at 301-607-4653** (OR 571-233-2859 Andy Tech) **THE MORNING OF THE OUTING.**

GENERAL

Format will be Captains Choice. No mulligans will be sold for this tournament. Refreshment carts will offer snacks and drinks for cash, and complimentary water and sodas.

FOOD

Lunch will be provided prior to the awards ceremony.

PRIZES TO BE AWARDED

\$10,000 CASH PRIZE HOLE-IN-ONE !!!! First, second and third place team awards. Other awards include Longest drive and closest to the pin. Golf-related door prizes will also be awarded by raffle.

If you have any questions or would like to sponsor the Tournament, Putting Green, Driving Range or Hole-in-One competition, please direct all inquiries to Andy Tech (atech@southlandind.com) or Carly Banko (cbanko@southlandind.com).

RealGreen Mid-Atlantic Conference & Expo



The U.S. Green Building Council, National Capital Region Chapter presents RealGreen Mid-Atlantic Conference: Green Building in a New Era. This Conference will provide an opportunity to participate in a practical and inclusive conversation about what sustainability means in the Mid-Atlantic and how to continue the shift to a greener built environment.

The conference will focus on real progress and solutions to environmental concerns that we face every day and will highlight the region's unique strength as a center of national and global importance in areas including Federal, State and Local Policy, Higher Education, Healthcare, Residential, Commercial, and Government.

**Continuing Education Credits Available*

Why Attend!

- Learn from regional and national experts about real green building solutions and successes
- Engage and network with other green building and sustainability professionals
- See the most innovative new products and services in the exhibit hall
- Celebrate at the RealGreen Extravaganza—an evening of fun, food, music and friends!

Who Should Attend!

- Green building professions including architects, engineers, planners, landscape architects, contractors, government representatives, suppliers, interior design professionals, building owners and managers, manufacturing, transportation, schools/academia and NGOs.

For more information go to **realgreenconference.org**

YEA KICKBALL GAME



National Capital Chapter VS Baltimore Chapter

Come support your chapter by playing or cheering on the
NCC YEA team!!!



Bring your family and enjoy a beautiful day at the park..
Centennial Park has boat rentals, playgrounds and other
activities for you and your family to enjoy.



Saturday, May 8
Centennial Park in Ellicott City
Time: 11:00 - 1:00pm
Location: Field #2

Address:
9801 Old Annapolis Road (North Entrance)
Ellicott City, MD 21042
10000 Route 108 (South Entrance)

****Contact Scott Houghton to RSVP NLT 5-3-10* (shoughton@victaulic.com or
410-980-8538)***

Centennial Park description:

Centennial Park has won awards for its natural design and sensitivity to nature. The 337-acre park features a spectacular 54-acre, man-made lake, which is stocked by the State Department of Fisheries, and is home to a variety of wildlife such as white-tailed deer, beavers, foxes, turtles, herons, and many other bird species.

You can walk, run or bike the 2.6-mile paved pathway that meanders around the lake or the 7.3 miles of interconnecting paved pathway that includes links to surrounding neighborhoods. Cast for bass, trout, sunfish and tiger muskies. The park has four main areas: North, South, East, and West, each with a separate entrance. Included are 9 picnic pavilions available on a first-come-first-served basis, unless reserved, and 3 first-come-first-served picnic areas (propane grills are not permitted). From late spring through early fall, boats are available for rent at the General Store/Boat Rental Office located in the park's South area. The park is open from 7am to dusk or as posted. Park regulations prohibit hunting, firearms, swimming, sail boarding, wind surfing, and inner tubing. Alcoholic beverages are allowed only in the pavilions by permit. Leashed pets are allowed in the park but not in picnic, playground, or sports areas. Howard County law requires owners to clean up after their pets.