

# The Central New Yorker

## ASHRAE Newsletter

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

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## THE PRESIDENT'S Message

I'd like to thank Vishnu Sishtla from Carrier Corporation for coming in and speaking at last months meeting. Vishnu had some very detailed information about the way the first centrifugal chillers were developed by Willis Carrier. It was very interesting to learn of the first refrigerants used and the thought processes that went into designing the first pieces of commercial equipment.

This months meeting is going to be a tour of Cornell's Combined Heat and Power Project. This is also a joint meeting with the Twin Tiers Chapter. Please see the meeting description in the newsletter for all the details.

Next years Board of Governors nominees are also listed in this newsletter. We'll vote on the slate at the dinner following the tour.

I look forward to seeing you on the 14<sup>th</sup>. It should be a great tour!

*Jim Walker*  
CNY Chapter President

### ASHRAE Monthly Meetings

Meeting Date: April 14, 2010

3:30-5:00 p.m. Drive to Cornell in Ithaca

5:00-6:00 p.m. Tour of Cornell CHP Project

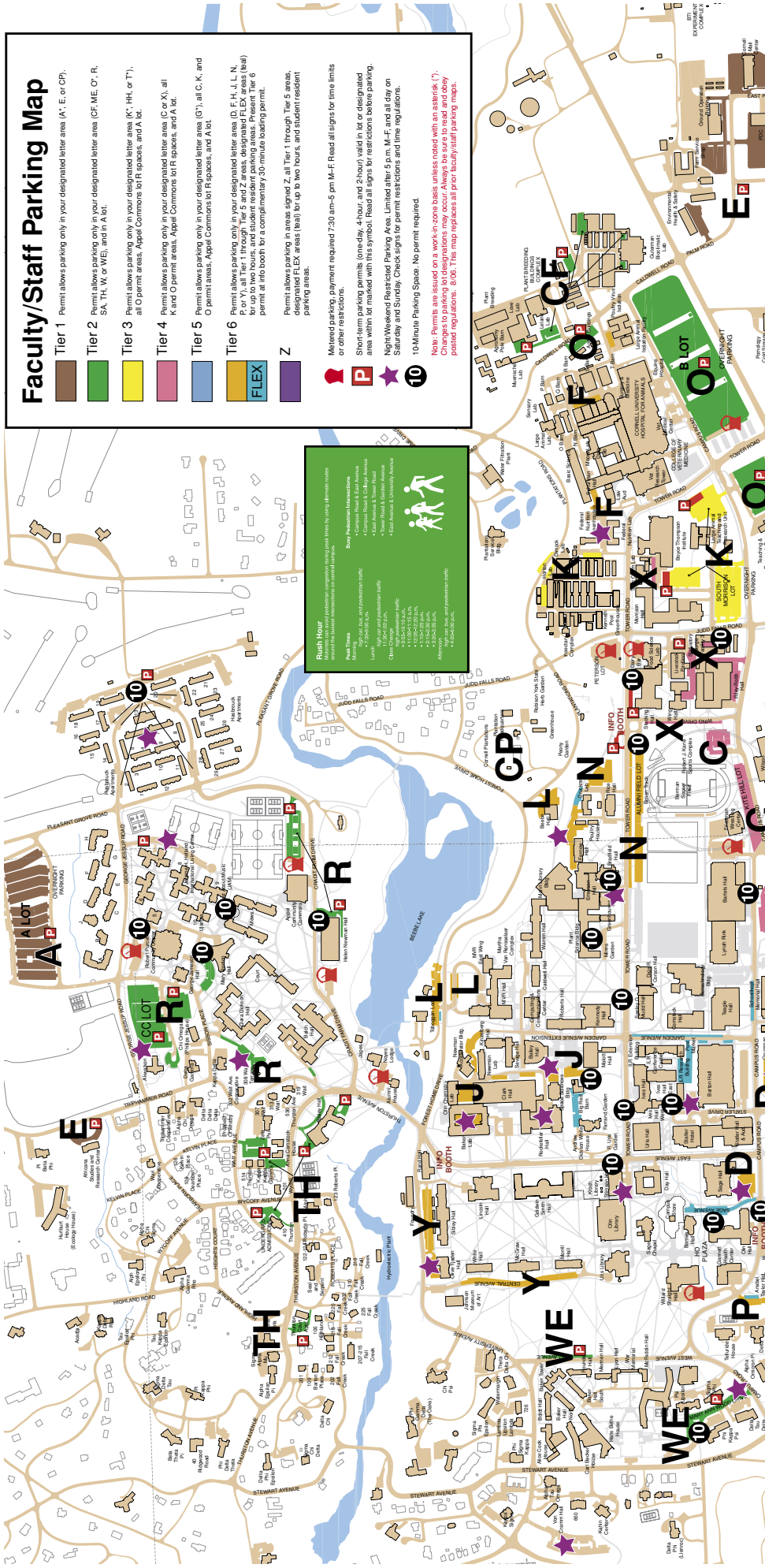
6:30-7:00 p.m. Dinner at Holiday Inn in Ithaca

7:00-8:00 p.m. Speaker

8:00-9:30 p.m. Drive back to Syracuse

<http://www.centralnewyork.ashraechapters.org>

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## Upcoming Programs

April 14	Tour — Cornell Combined Heat & Power Plant	
May 12	Julian DeBuliet — Variable Refrigerant Flow/Joint Meeting RSES	
June	Clambake & Golf Tournament	

# Historically Speaking

## "Star Spangled Banner" Flag Gets Air Conditioned Home

The actual flag that flew over Fort McHenry in September 1814 in Baltimore Harbor during the Battle of Baltimore portion of the War of 1812, is now permanently housed in the National Museum of American History, one of the Smithsonian museums on the National Mall in Washington, DC. This is the "flag that was still there" that inspired Francis Scott Key to write a poem that would later become the national anthem of the United States. Central New York Chapter member Charlie Bullock, who was largely responsible for the design of the Mount Vernon HVAC system I wrote about last month, was also the HVAC design consultant from Carrier Corporation for the special controlled-environment enclosure for the Flag that was opened in 2008 at the Smithsonian.

The overall outer dimensions of the enclosure to exhibit this large (30ft x 34ft) flag are: height 14ft, frontal width 60ft, depth 46ft. The Flag is housed in a tightly sealed inner enclosure to isolate it from the the outer enclosure air supply which flows around the bottom, sides and top of the inner enclosure to maintain its interior temperature at the desired level of 75 F. Humidity inside the inner enclosure is maintained at 50%RH by separate humidification devices. Both the inner and outer enclosures have 4in. thick rigid thermal insulation. This display is conditioned with a dedicated heating/cooling unit with a 7000 btu/hr capacity. Inside the inner enclosure, the flag is lying at a 10 degree angle and is viewed through a glass front on both the inner and outer enclosures.

Prior to placing the 194 year old Flag in the new exhibit, it underwent an extensive restoration process because of its fragility and environmental and light damage caused by years of use and hanging unprotected in the museum. The Flag originally measured 30ft x 42 ft with stripes that were two feet wide and stars about two feet in diameter. It had 15 horizontal red and white stripes, as well as 15 white stars in the blue field. The two additional stars and stripes, approved by the U.S. Congress's Flag act of 1794, represent Vermont and Kentucky's entrance into the Union. The stars were arranged in vertical rows, offset, each containing three stars. At the time, the practice of adding stripes (in addition to stars) with the induction of a new state had not yet been discontinued.

Before the Flag came to the Smithsonian in 1912, it was owned by decendants of the family of the commandant of old Ft. McHenry. During that time, souvenir and gift pieces were cut from it. This cutting along with deterioration from continued use removed several feet of fabric from the Flag's fly end reducing it to its present 30ft x 34ft size. Currently the Flag has only 14 stars -- the 15th star was similarly given as a gift.

With the care its getting now, the "Star Spangled Banner" is in good hands.

— **Paul Britton, Chapter Historian**

# 2010/2011 Candidates Nominated Election is on April 14th

The following Candidates have been nominated for the Board of Governors of the CNY Chapter of ASHRAE for the 2010/2011 Chapter year beginning on July 1, 2010. The election will be held at the April 14th 2010 Chapter meeting. All members in good standing of the CNY Chapter are eligible to vote in this election.

President\*  
President Elect  
Vice President/Programs  
Treasurer  
Secretary  
Term Member - Membership Promotion Chair  
Term Member – TEGA Chair  
Term Member - Research Promotion Chair  
Term Member – Student Activities Chair  
Term Member – Historian  
Member at Large - Hospitality  
Past President\*

Rae Butler  
Steven Sill  
Bill Walters  
Mike Kingsley  
Bret Fero  
John Mix  
Don Howell  
Mark Yonnick  
Charles Bertuch  
Paul Britton  
Don Middleton  
Jim Walker

\*These positions not subject to vote.

Please come and participate in the election and program. Thank you to the candidates for their participation.



The CNY Chapter is now accepting business card advertising in this monthly newsletter. Send us your business card (or text for a line card) and we'll scan it in and for \$50 your card will run in the newsletter for the year. Send your ad and payment to:

**ASHRAE Newsletter, Advertising**, P.O. Box 2396, Syracuse, NY 13220  
If you have a digital card (or questions), email it to us at [westbror@upstate.edu](mailto:westbror@upstate.edu).

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# **ASHRAE Region I**

## **2009-10 Executive Committee & Society Contacts**

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# Conference Information



## IAQVEC 2010 *The 7th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings* August 15-18, 2010, Syracuse, New York, USA

Hosted by:



National Research  
Council Canada

Conseil national  
de recherches Canada



United States  
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### Invitation:

We cordially invite you to participate in IAQVEC 2010 at the picturesque campus of Syracuse University!

IAQVEC is a premier international conference series, held once every three years. It has previously been held in Montreal, Canada (1992, 1995), Lyon, France (1998), Changsha, China (2001), Toronto, Canada (2004), and Sedai, Japan (2007).

The theme of IAQVEC2010 is "Innovation and Integration". IAQVEC2010 will provide a forum for:

1. Presentations of original research work and findings,
2. Demonstration and displays of innovative technologies, and
3. Discussions of future challenges and opportunities.

It will cover a wide range of key research areas with the goal of simultaneously improving indoor environmental quality and energy efficiency, and enhancing wellbeing and sustainability.

We are looking forward to your participations and contributions!

<i>Jensen Zhang</i>	<i>Suresh Santanam</i>	<i>Hans Schleibinger</i>	<i>Robert Thompson</i>
<i>Conference</i>	<i>Co-Chairman</i>	<i>Co-Chairman</i>	<i>Co-Chairman</i>
<i>Chairman</i>			

*Syracuse  
University  
Department of  
Mechanical &  
Aerospace  
Engineering*

*Syracuse COE  
Deputy Executive  
Director*

*NRCC  
Senior Research Officer  
& Group Leader,  
Ventilation of IAQ*

*EPA  
Chief Indoor  
Environment  
Management Branch*

Abstract submission deadline extended  
until January 31, 2010



SU Quad for breaks & Lunches



Hall of Languages for Tech Sessions



***New York Energy \$mart<sup>SM</sup>***  
**Commercial Lighting Program**  
***“Advanced Lighting Training”***  
***The Right Light<sup>SM</sup>***  
Sponsored by NYSERDA



*This **FREE** training, conducted by Lighting Research Center staff, is for individuals who have already attended basic Commercial Lighting Program training, and members of the design community with good comprehension of basic lighting concepts. Hosted by the RIT Inn and Conference Center.*

**When: Thursday, April 22, 2010**

**Where: RIT Inn & Conference Center, 5257 W. Henrietta Road  
West Henrietta, NY 14586 (Just off the NYS Thruway Exit 46)**

**Why should you  
attend this event?**

- Learn how to deliver *The Right Light<sup>SM</sup>* to your customers
- Learn about quality lighting design, energy efficiency, the use of controls, and designing with new technologies including High Efficiency Low Glare and LED luminaires.
- Earn (2) Continuing Education Credits for AIA, PDH, and NCQLP (LC).

**Agenda for session**

- **4:30 – 5:00 p.m. Registration and Light Dinner**
- **5:00 – 7:30 p.m. Presentation**

**Who Should Attend?**

Lighting Practitioners including: Architects, Engineers, Lighting Designers, Interior Designers, Manufacturer Reps, Contractors, Distributors, and Energy Service Companies.

**Attendees should be:**

**Existing Commercial Lighting Program (CLP)  
Participants, Business Partners, or  
other members of the Design Community with a good  
comprehension of basic lighting concepts.**

**Pre-registration Required: Seating limited to the first 100 registrants**

To pre-register for this free event, please complete the bottom part of this form and

**Fax to (518) 452-2149 or email to [clp@icfi.com](mailto:clp@icfi.com).**

Please call CLP if you have any questions, toll-free at **1-866-698-8177**.

*Please submit a separate registration form for each person attending. No Walk-ins please.*

**Register today! Registration Closes April 15, 2010**

Are you already a CLP Business Partner? Please check one: ☐ Yes ☐ No ☐ Not sure

Does your business promote effective, energy-efficient lighting? \_\_\_\_\_

How many projects does your company complete annually? \_\_\_\_ How many of these are lighting projects? \_\_\_\_

Name of person attending: \_\_\_\_\_

Company Name: \_\_\_\_\_

☐ Architect ☐ Engineer ☐ Lighting or Interior Designer ☐ Contractor ☐ Distributor ☐ ESCO ☐ Other

Address: \_\_\_\_\_ City, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_



**POSTING  
POSITION OPENING**

**POSITION OPEN:** Controls & Instrumentation Technician

**DEPARTMENT:** Service

**POSITION DUTIES:**

- Perform field commissioning of PLC and BMS packages provided for industrial/commercial and HVAC heating processes.
- Provide production support in regards to testing PLC and BMS packages prior to equipment shipping.
- Review and understand specifications for heating applications working with in-house engineering in designing heating solutions.
- Provide in-house service support for customers in regards to PLC and BMS controls designed and provided by Fulton

**MAJOR SKILLS & COMPETENCIES:**

- Ability to calibrate, test, troubleshoot and repair various devices and control loops.
- Ability to read, use and update electrical, electronic, piping and instrument drawings and schematics.
- Must be a self-starter, be able to work independently with minimal supervision, and have the ability to use sound judgment in making decisions.
- Must be proficient in ISA standards and practices for instrumentation.
- Thorough knowledge of PID control theories and techniques.
- Thorough knowledge of relay ladder logic and programmable controllers.
- Ability to read and interpret engineering drawings and specifications.
- Must have good oral and written communication skills.
- Must be able to work different shifts with minimal direct supervision.

**MINIMUM JOB REQUIREMENTS:**

- Completion of a Instrumentation or Industrial Electronics (2-year) curriculum at a technical school, or an AA/AS Degree in a related science or engineering major plus substantial relevant on-the-job training.
- 2 years in Industrial/Commercial or HVAC process instrumentation and control and/or analytical instrumentation or a closely related job

**Other Requirements**

Valid NYS Drivers License  
Good credit standing