I’d like to thank Vishnu Sishtla from Carrier Corporation for coming in and speaking at last month’s 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 month’s 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 year’s 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 14th. 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
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 descendents 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.
ASHRAE Region I
2009-10 Executive Committee & Society Contacts

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**ARC – Assistant Regional Chair & Treasurer**
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**Nominating Committee Member**
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**Nominating Committee Alternate**
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**RVC Membership Promotion & DRC Alternate**
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**Regional Chapter Programs Chair**
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**Regional Refrigeration Chair**
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**Regional Historian**
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**Regional Electronics Communication Chair, & Newsletter Judge**
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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!

Jensen Zhang Staff Suresh Santanam Hans Schleibinger Robert Thompson Committee Chairman Co-Chairman Co-Chairman Co-Chairman
Syracuse University Syracuse COE NRCC EPA
Department of Mechanical & Aerospace Engineering Deputy Executive Director Senior Research Officer Chief Indoor
Engineering Director & Group Leader, Management Branch Ventilation of IAQ

Abstract submission deadline extended until January 31, 2010

© IAQVEC 2010 - Sitemap
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)

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**Why should you attend this event?**
- Learn how to deliver *The Right Light* SM 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.

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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.

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: __________________________
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