

The Central New Yorker

ASHRAE Newsletter

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

The President's Message

Welcome to the New Year. They seem to go faster every year. We are half way through the ASHRAE Year. The line up of programs and events for the remainder of the year should prove to be interesting: two field trips, a visit from the President (ASHRAE's) and three relevant technical programs, and of course the year ends with the Clambake and Golf Tournament, see listing in this Newsletter.

This month is Membership Month and we will be recognizing new members by treating them to dinner at the Dinosaur. The program is a tour of King & King Architects newly renovated downtown LEED offices. King & King was one of several firms in our industry to move downtown, in moves that are environmentally, economically and socially beneficial to the firms and the area. I have not visited the space yet but have been impressed with the improvements on the outside and am looking forward to the tour (and of course, dinner afterward).

As it is membership month I encourage you to look around your office/company and see who would benefit from ASHRAE membership and encourage them to join. Membership provides tools to improve members' technical knowledge, see what is going on in other projects around the country and locally, and learn how ASHRAE leads, guides and standardizes our industry.

Look forward to seeing you at the tour. I encourage you to think of one way you can support CNY ASHRAE this spring-attend a program, participate in Golf Tournament, recommend someone join ASHRAE or volunteer to join the Board. I guarantee that anyone who contributes will find it not only supports CNY ASHRAE but will also benefit yourself. Thank you for your consideration.

Rae Butler, CNY Chapter President

ASHRAE Monthly Meetings: Meeting Date is Jan. 12

Location: 5:30 p.m. @ King & King Architects
358 W Jefferson St., Syracuse, NY

Times: 5:30 tour at King & King Architects
7:00 p.m. Dinner at Dinosaur Bar-B-Que, Willow Room

Cost: \$25.00 per person.

Reservations: www.cnyashrae.org

We have a new website address: <http://www.cnyashrae.org>, this can be used to make reservations and chapter information.

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2010/2011 CNY ASHRAE Programs

January 12, 2011

The January meeting will be a tour of Tour of the King & King Architects building at 358 W. Jefferson St. in Syracuse. In 2009, King & King refurbished an abandoned warehouse on Syracuse's near Westside into their new headquarters. The building is on target to be LEED-Platinum certified and serves as a showcase for green design in practice.

The tour will begin at 5:30. Parking is available directly across the street from the main entrance to the building. After the tour we will move to the Dinosaur Bar-B-Que for dinner in the Willow Room on the second floor. Dinner will be served at 7:00. The charge will be \$25.00/person. This is Membership Promotion night so there will be no charge for new members.

You must register for the meeting by Friday, January 7.

January 12, 2011

Membership Promotion Night

Event: Tour of King & King Architects LLP, 358 W Jefferson St., Syracuse, NY

Dinner at the Dinosaur Bar-B-Que, Willow Room

February 9, 2011

Student Chapter Night

Topic: Energy Audits in Commercial Buildings

Speaker: Ian Shapiro, Taitem Engineering

March 7, 2011 (MONDAY)

History Night / Announce slate of officers

Topic: ASHRAE Historical Committee

Speaker: Jerry Groff

Topic: Modeling a Sustainable World

Speaker: Lynn Bellenger, ASHRAE President

April 13, 2011

Research Promotion Night / Election of Officers

Topic: Variable Refrigerant Flow Systems

Speaker: Julian de Bullet, ASHRAE Distinguished Lecturer

May 11, 2011

Install Officers

Event: Tour of Fulton Boilers

Dinner at the River House

June, 2011

66th Annual Clambake at Hinerwadel's Grove

13th Annual RP Golf Tournament (June 13th)

Historically Speaking

Peru's Ice Maiden

This is another interesting story from Central New York member Charlie Bullock about a project he led at Carrier in Syracuse 15 years ago that involved providing refrigerated display cases for a 500 year old frozen teenage girl. She was discovered by a National Geographic Society anthropologist on the 20,700-ft summit of Mt. Ampato in Peru. It is thought she was sacrificed to appease the mountain deities believed to control the weather -- who could bring famine or poverty to her Inca community. A rockslide triggered by ash from a nearby volcano led to her discovery. The Ampato maiden represented a cache of frozen knowledge, a potential storehouse of answers to questions about her Inca contemporaries that, until now, could only be guessed at. She had straight black hair reaching her shoulders that framed a face whose skin has dried and pulled back slightly from a full set of white teeth. But the brownish skin of her shoulders, bodice, arms, legs and feet retained a dull lustre not far from life. She was estimated to have been about 10 to 15 years old and about 90 pounds in weight at the time of her death.

Two special refrigerated 44 cubic foot display cases that maintained temperatures between 0 and 8 degrees F were designed, tested and built in a three-month time frame by Charlie's team for the Ampato maiden using modified Carrier PTAC units. One was sent to Peru so she could be preserved, displayed and studied by scientists at a Peru university. The other was used by the National Geographic Society for a month-long exhibit in Washington, DC. The most difficult case design problem was the minimization of frost formation on the inside glass display surfaces, which would obscure viewing. This was aggravated by the requirement that the inside case relative humidity must be very high, over 90%, in order to prevent the drying out of her skin. A third enclosure also had to be completed to transport her between Peru and the US. This was a dry-ice-cooled, insulated transfer box that could not utilize any electrical power and had to be small enough to fit in the hold of commercial airliners.

After the conclusion of the National Geographic exhibit, that was viewed by as many as 20,000 visitors per day and was one of the most popular in their history, the Ampato maiden was shipped back to Peru with her display case. Both display cases were donated to Peru by Carrier for installation in a new museum, with the second case being used to display additional frozen bodies and remains that have since been discovered in Peru.

— **Paul Britton, Chapter Historian**

The AHR Expo in Las Vegas, NV is fast approaching (January 31 – February 2) and we'd like to acknowledge those companies from our CNY Chapter who will be exhibiting:

- Fulton Companies
- Carlyle Compressor Co.
- Carrier Corp.
- INFICON
- ICM Controls Corporation
- JUMO Process Control, Inc.
- Insul-Tek Piping Systems, Inc.
- Tricon Piping Systems
- Flex-Hose Co.

If you will be attending the Expo, please plan on visiting their booths as they promote new technologies in the HVACR market.

— Mark Yonnick, *RP Chair*
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