

# 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

**S**pring is in the air! That means we are down to only two more chapter meeting, so if you are holding out — **You need to make at least the last two meeting this year — you have April and May left.**

Also don't forget to mark your calendars for our **64<sup>th</sup> Annual Clambake** on June 11 and our **11th Annual RP Golf Outing** on June 15.

Last month was our history month, and our program was about the history of compressors. I want to thank our speaker Bart Powelson. His presentation was both entertaining and informative. Thank you to Carrier Corporation for sponsoring out very successful History night.

This month's meeting is a combination of off-site field trip and chapter dinner. We will begin our April meeting with a tour of the 110,000 square foot Ultra Dairy processing facility at 6750 Benedict Road in East Syracuse (off of Fly Road). The facility ultra-pasteurizes milk to 285 degrees and packages extended shelf life (ESL) dairy and non-dairy products. Meet at Ultra Dairy at 4:45 p.m. for the tour and then we'll move to the Double Tree for dinner at 7:00 p.m.

It's always important to pre-register for our meetings, but it's extra important that you pre-register for the April meeting. We need to limit the number for the tour to 35 people (which would be an all time high). The first 35 people who pre-register will join us, on what should be a very interesting tour.

Even if you're not interested in the tour, join us for dinner. After the tour, the first 35 to pre-register will head back to join the others at the Doubletree at Carrier Circle for drinks and dinner. The dinner charge is still \$25.00, which we will be collecting at the Ultra Dairy for those taking the tour. During dinner, Jim Walker will be submitting his slate of officers and community chairs for the 2009-2010 term.

So, for the reasons outlined above, please REGISTER BY Friday April 3<sup>rd</sup>, using the link below:

<http://centralnewyork.ashraechapters.org/Reserv.htm>

Chris Martin  
CNY Chapter President

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

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# Historically Speaking

## ELECTRIC REFRIGERATOR DISPLAY AT ST. LOUIS WORLD'S FAIR - 1904



At the turn of the twentieth century, most refrigeration technology was applied to large installations. Refrigeration for homes and merchant establishments was in its infancy. Numerous entrepreneurs were attempting to solve the many technical problems impeding the development of a reliable refrigerator. One of the earliest successful small size refrigeration systems was initially produced in 1900 by the Brunswick Refrigerating Company in New Brunswick, NJ for homes and butcher shops. By 1904, the company advertised a refrigerator that had the refrigerating system self contained within the refrigerator. Normally, the refrigeration compressor and condenser were located remotely from the refrigerator.

The company displayed a model of their refrigerator at the 1904 St. Louis World's Fair. It was promoted as "A good-sized box, between five and six feet high and has at one side a small compartment, about a foot and a half wide, but extending the height of the refrigerator, in which is placed a self contained, 300 pound capacity (this refers to pounds of ice equivalent) refrigerating machine with coils of brine piping in the upper section. The machine is operated by a little motor, attached, and is said to work very satisfactorily, easily keeping the temperature in the refrigerator at 40 degrees F. or under."

The Brunswick Refrigerating Co. manufactured small size refrigeration equipment for many years. In 1922 it merged with Kroeschell Brothers Ice Machine Co. to form Brunswick-Kroeschell which in turn merged with Carrier Engineering Corp. and York Heating and Ventilating Corp. to form Carrier Corporation in 1930.

The year 1904 is notable for other milestones: Construction was begun on the U.S. version of the Panama Canal, the American Society of Refrigerating Engineers (ASRE), a predecessor society of ASHRAE, was formed, and as was noted in last month's article, the public debut of comfort air conditioning took place at the St. Louis World's Fair.

— Paul Britton, Chapter Historian

# ASHRAE Government Affairs Update

## New York Launches Energy Efficiency Program for Colleges and Universities

The New York State Energy Research and Development Authority (NYSERDA) announced a new program to promote energy efficiency to colleges and universities across the state. The New York Energy \$martSM Focus on Colleges and Universities program will help higher-education institutions implement energy efficiency and sustainability practices, which will lower energy costs and reduce greenhouse gas emissions.

By identifying technical assistance and financial incentives, the program will help institutions maximize energy efficiency and achieve their environmental goals. NYSERDA selected Einhorn Yaffee Prescott, Architecture & Engineering (EYP), to help develop outreach strategies for colleges and universities. The institutions will use those strategies to support energy efficiency improvements in existing buildings or new construction projects.

The college and university sector is one of several that NYSERDA is targeting to help utility customers meet the state's goal of reducing electricity consumption 45 percent by 2015. The program aims to not only reduce electricity use, but promote sustainable building design and campus operations. Funding will be provided for energy efficiency improvements, new construction, renovations, or equipment upgrades. NYSERDA will encourage higher education institutions to share their energy-efficiency implementation strategies among themselves.

Funding for all New York Energy \$mart programs, which NYSERDA administers on behalf of the New York Public Service Commission, comes from a charge on utility bills. The utilities that participate in the programs include: Central Hudson, Con Edison, NYSEG, National Grid, Orange and Rockland, and Rochester Gas and Electric.

For more information, see the NYSERDA press release [http://www.nyseda.org/Press\\_Releases/2009/PressReleas20090903.asp](http://www.nyseda.org/Press_Releases/2009/PressReleas20090903.asp)) and the Focus on Colleges and Universities program Web site (<http://www.nyseda.org/HigherEd>).

## DOE to Invest \$8 Billion in Weatherization and State Energy Grants

DOE announced that it will invest nearly \$8 billion in state and local weatherization and energy efficiency efforts as part of the American Recovery and Reinvestment Act. The funds will be divided between the Weatherization Assistance Program, which will receive nearly \$5 billion, and the State Energy Program, which will receive nearly \$3 billion. This will help families save hundreds of dollars every year on their energy bills, while creating approximately 87,000 jobs. To jump-start the job creation and weatherization work, DOE is initially releasing \$780 million and will release more as the states demonstrate that they are using the funding effectively.

The State Energy Program funding will be used to provide rebates to consumers for home energy audits or other energy-saving improvements; to develop renewable energy and alternative fuel projects; to promote Energy Star products; to upgrade the energy efficiency of state and local government buildings; and other innovative state efforts to help families save money on their energy bills. The weatherization funding will improve the energy efficiency of the homes of low-income families by adding more insulation, sealing leaks, or modernizing heating and air conditioning equipment, at a cost of up to \$6,500 per home. The energy efficiency upgrades will be available for families making up to 200% of the federal poverty level. For a family of four, this translates to about \$44,000 per year in the lower 48 states, \$55,140 per year in Alaska, and \$50,720 per year in Hawaii. See the DOE press release (<http://www.energy.gov/news2009/7015.htm>), the Weatherization Assistance Program Web site.

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(<http://www.eere.energy.gov/weatherization/>), and the State Energy Program Web site ([http://www.eere.energy.gov/state\\_energy\\_program/](http://www.eere.energy.gov/state_energy_program/)).

### **About the ASHRAE Government Affairs Update**

*ASHRAE's Government Affairs Update features information on government affairs related activities of interest to ASHRAE members and others interested in the built environment. Archives of previous updates are available from the government affairs webpage (<http://www.ashrae.org/advocacy>).*

*If you have any recommendations regarding content, or have questions about or would like to participate in Washington Office activities, please contact ASHRAE Government Affairs staff at (202) 833-1830 or [washdc@ashrae.org](mailto:washdc@ashrae.org).*

— William Walter

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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# 2009 CNY ASHRAE Programs

In the new year the programs will focus on energy efficiency, the latest developments in products and opportunities for improved operating efficiency.

|                   |  |
|-------------------|--|
| April<br>April 22 | April will be Field Trip month with a tour of a dairy processing plant<br>Satellite Broadcast Indoor Air Quality – Bynum Learning Center   |
| May               | Enthalpy Heat Recovery – A program about air heat exchangers, the newest technologies and potential savings. This is a good follow up to the Satellite Broadcast. Jim Connell for AirXchange will be this month's presenter. |
| June              | Clambake   |

## Monthly Program Details

***Wednesday April 8<sup>th</sup>, 5:00 p.m. at the  
Byrne Dairy Ultra Dairy Processing Facility  
Dinner and Cash Bar follows tour at the Double Tree 7:00 p.m.***

**The Annual Field Trip Our will be to the Byrne Dairy Ultra Dairy** at 6750 Benedict Road in East Syracuse (off of Fly Road). It is a relatively new 110,000 square foot processing facility. The facility ultra-pasteurizes milk to 285 degrees and packages extended shelf life (ESL) dairy and non-dairy products. This will be an interesting and close field trip. After tour we will go to Double Tree for the cash bar and dinner. The tour and dinner are \$25.

**DIRECTIONS TO BYRNE DAIRY:** Take 481 to the Kirkville Road West Exit turn right on to Fly Road. Turn right on to Benedict Road. You can see the facility from 481.

**Programs are the second Wednesday of the month.**

- April** will be Field Trip Month with a tour of the new Byrne Dairy ultra pasteurizing plant off Fly Road. Because it is an off site tour we will meet a little earlier than normal, exact time will be in next newsletter.
- April 22** **1- 4 p.m. the Annual Live Satellite Broadcast** this year's topic is Indoor Air Quality and integration into sustainable design. This will be held at Carrier University (Bradnum Learning Center). Carrier has generously offered to hold this year's satellite broadcast, it is free. Consider sending some of your employees to improve their knowledge of our industry.
- May** **Enthalpy Heat Recovery** – A program about air heat exchangers, the newest technologies and potential savings. This is a good follow up to the Satellite Broadcast. Jim Connell for AirXchange will be this month's presenter.
- June** **Clambake**

If anyone has specific topics or speakers they would like to see included in the CNY ASHRAE Programs, please email me at [RButler3@twcnyny.com](mailto:RButler3@twcnyny.com).

— Rae H. Butler

# Syracuse University Scholar

**SU** student chapter member Carl E. Braestrup is this year's recipient of the \$750 Fritz Traugott Scholarship! Congratulations, Carl, and keep up the good work!

## Internships?

If your company is interested in recruiting interns or new hires from our student chapters then please let me know and I can pass on your openings and/or contact information.

Mike Kingsley  
kingsleym@saic.com  
Student Activities Chair  
Central New York ASHRAE

## The 64<sup>th</sup> Annual CNY ASHRAE Clambake

Hinerwadel's Grove, North Syracuse

*Fun, Food, Games and Raffles!*

Please join us on Thursday, June 11, 2009. The activities begin at 4:00 p.m. and run until 8:00 p.m. The bake is a continuous buffet which includes the following plus a whole lot more.

- steamed clams, raw clams, shrimp
- clam chowder, salt potatoes, fried chicken
- barbecued beef and pork sandwiches
- roast pig at 6:00 p.m.
- steamship round at 7:00 p.m.
- desserts
- beer and soft drinks

The ticket price is only \$42 each and tickets will be available starting May 1. Please contact Bonnie Henderson C/o Syracuse Thermal Products at (315) 437-7321.

Mail checks payable to: CNY Chapter ASHRAE and **send** to:  
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