

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 welcome everyone back to the 2009-2010 ASHRAE season. I hope your summer was enjoyable even if it went by too fast. I'm pleased to have been chosen as your new President and am looking forward to serving you this year.

I'd like to thank and congratulate Chris Martin our out going President on an outstanding job he did last year running the chapter. I'd also like to thank the Board of Governors for the effort and time they put in this past year. The programs were interesting and informative and the all important financials were kept in order.

Our meetings again will be held at the Doubletree Hotel Syracuse. They will be on the second Wednesday of each month beginning in October and will follow the same format as last year:

Social Hour (cash bar):	5:30 to 6:00 p.m.
Sit Down Dinner:	6:00 to 6:30 p.m.
ASHRAE Business:	6:30 to 6:45 p.m.
Main Speaker:	6:45 to 8:00 p.m.

Dinner cost will remain the same at \$25.00. Reservations are *required* in advance so that we can let the Doubletree Hotel know how many participants we'll have at each meeting. Reservations can be made on line with Rae Butler at the website listed for your convenience:

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

Chris Martin and I attended the CRC meeting in August held in Albany. Our Chapter received several awards that we'll be handing out in our first meeting.

Our first speaker of the year will be Norm Marshall from Patterson-Kelly speaking on Hybrid Boiler systems and piping design with controls. Please see the programs article for more information on this topic.

I look forward to seeing everybody at the October meeting.


Jim Walker
CNY Chapter President

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

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Historically Speaking

Solar Water Heaters in Carrier Corp. Past

 At the beginning of the 20th century in California, domestic solar water heaters were in wide use. They were quite simple in design, consisting of a black-painted water tank mounted in an insulated box with glass on one side. Then in 1909 William J. Bailey, who was an engineer, began experimenting in a backyard tool shed in Monrovia, CA and came up with an improved design which he began manufacturing that was called the "Day and Night" solar water heater. It had a pipe coil mounted on a flat plate as a solar collector connected to a storage tank mounted above the collector. Both components were insulated. Cold water entered the collector and was heated by the sun. As the water was heated, it rose into the tank above for later use. Californians had round the clock hot water for the first time. Bailey made further improvements to the Day and Night solar water heater which he continued producing successfully until the 1920s when huge deposits of natural gas were found in the Los Angeles area. To take advantage of this inexpensive fuel, he began to manufacture Day and Night thermostatically controlled gas water heaters that were also successful. With the advent of the gas water heater, sales of the solar water heater dropped off and by 1941 he stopped making them.

The interesting part of this story is that the William Bailey who developed the "Day and Night" solar water heater in 1909 was the father of William Bailey, president during the late 60s of the Carrier Air Conditioning Co., a division of Carrier Corporation. The Day and Night company founded by the senior William Bailey ultimately became a division of Carrier Corp. through a series of acquisitions and mergers.

Solar water heaters lost out to gas water heaters in the past, but they just might make a comeback.

— **Paul Britton, Chapter Historian**

Optimizing Energy Performance of Pump Systems and Maximizing LEED EAc1+5

Grundfos Pumps will host a traveling show-case, hands-on training and a one-hour PDH course on Friday, October 9, 2009 at the Drumlins Country Club (*see flyer on following page*).

This event will include a one hour training session on **ASHRAE guidelines to achieving LEED points for the Energy and Atmosphere Credits 1 + 5** as it pertains to pumps and pump systems. The discussion will apply to any and all pumps in a building design, with specific attention focused on methods to achieve energy usage reductions of AC pumps, heating, pressure boosting and domestic hot water and re-circ/waste water.

A reservation is required for technical presentation. See details below.

Date:	Friday, October 9, 2009
Time:	Technical presentation: noon-1pm
Complete event hours:	10:00am - 4:00pm

Technical Training Reservation: send email to: customerservice@wmssales.com

Location:	Drumlins Country Club
	800 Nottingham Rd., Syracuse, NY

For additional details please contact Peter Korzeniewski, LEED AP at
315-720-0575 or pkorz@grundfos.com.

— John Mix
ASHRAE New Membership Chair

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.

Advertise Here

YOU'RE INVITED THE IMPOSSIBLE TOUR

What to expect at the event?

- Hands-on training from Grundfos professionals
- The ground-breaking technology of the new ALPHA circulator
- The MAGNA – all you need for commercial heating applications
- A wide selection of Grundfos products ranging from residential to industrial solutions
- Full scale working product demos
Pie presentation by Peter Korzeniewski
Earn PDH Credits (**Reservation required for class**)
To make your reservations email WMS Sales at:
customerservice@wmssales.com
Lunch & refreshments - 10:00 a.m. - 4:00 p.m.
- Representatives from **WMS Sales Inc.** will be on site at each location



New York
October, 2009

PLEASE JOIN US...

Monday, October 5

Marriot Hotel
1340 Millersport Highway
Amherst, NY

Wednesday, October 7

Frontier Field (Redwings Stadium)
333 North Plymouth Ave.
Rochester, NY

Friday, October 9

Drumlins Country Club
800 Nottingham Rd
Syracuse, NY

Tuesday, October 13

Normanside Country Club
150 Salisbury Road
Delmar, NY

Thursday, October 15

Orange County Choppers
14 Crossroads Court
Newburgh, NY



POWERED BY THE IMPOSSIBLE

Register online at:

poweredby.grundfos.com

GO



GRUNDFOS

2009/2010 CNY ASHRAE Programs

Well, it is officially Fall. I hope that you all had a great summer. Our featured speaker for the October Meeting will be Norm Marshall, Special Projects Manager for Harsco Corp., Patterson-Kelly Division. Mr. Marshall will be speaking about applying Modular Boilers in Hybrid Heating Systems and Hydronic Piping Design with Controls.

I would like to send out a special “Thank you” to Mike Noonan at BJ Muirhead and also to Adirondack Combustion for lending a hand into making the October Meeting come to fruition. I hope to see you there it should be a great meeting!

Upcoming Programs

October 14	Norm Marshall — Patterson - Kelly — Hybrid Boiler Systems, Piping and Controls
November 11	Ed Fronapfel – Distinguished Lecturer, (Snow Load Failure 2003 Colorado Blizzard)
December 9	Christmas Party – TBA
January 13	Mark Carpiotti (ASHRAE Past President) — International Building Codes
February 10	UVC — Joint Meeting ASHE (Speaker provided from EDCO Filters) SU Night
March 10	Carrier History Night
April 14	Tour — Cornell Combined Heat & Power Plant
May 12	Julian DeBullet — Variable Refrigerant Flow/Joint Meeting RSES
June	Clambake & Golf Tournament

— Steve Sill
Vice President/Programs

ASHRAE Government Affairs Update

DOE to Fund up to \$454 Million for Retrofit Ramp-Ups in Energy Efficiency

U.S. Secretary of Energy Steven Chu announced a new \$450 million program designed to catalyze a nationwide energy upgrade that experts estimate could save \$100 million annually in utility bills for households and businesses. The Recovery Act's "Retrofit Ramp-Up" program will pioneer innovative models for rolling out energy efficiency to hundreds of thousands of homes and businesses in a variety of communities. Much like past roll-outs for cable TV or the Internet, the Department of Energy (DOE) intends to create models that, when undertaken nationally, will save consumers billions of dollars on their utility bills and make the huge savings of energy efficiency available to everyone.

The Request for Information (RFI) is for competitively selected local energy efficiency projects. This competitive portion of the Energy Efficiency and Conservation Block Grant (EECBG) Program will target community-scale retrofit projects that make significant, long-term impacts on energy use and can serve as national role models for grassroots energy efficiency efforts. The DOE is seeking public comment on this newly funded program under the Recovery Act. Public comment ends on Sept. 28, 2009.

The DOE is accepting feedback on both the competitively-selected portion of the EECBG program for up to \$390 million for neighborhood-scale building retrofits, as well as up to \$64 million for local governments that were not eligible to receive the formula grants announced earlier this year. The EECBG program empowers local communities to make strategic investments to meet the nation's long-term goals for energy independence and leadership on climate change.

This first topic area under the funding solicitation will target a select number of innovative programs that are structured to provide whole-neighborhood building energy retrofits. These will be projects that demonstrate a sustainable business model for providing cost-effective energy upgrades for a large percentage of the residential, commercial, and public buildings in a specific community. Possible approaches could include innovative partnerships between the public and private sector, utility retrofit and audit programs, alternative financing, retail partnerships, and others. The DOE will award up to \$390 million for these projects.

The second topic area for up to \$64 million is reserved for cities, counties and state-recognized Indian tribes that were not eligible to receive population-based formula grant allocations from DOE under the Energy Efficiency and Conservation Block Grant program. These funds are intended to help expand local energy efficiency efforts and reduce energy use in the commercial, residential, transportation, manufacturing, or industrial sectors.

View the Request for Information: <http://doe-iips.pr.doe.gov/iips/faopor.nsf/1be0f2271893ba198525644b006bc0be/daf445e535572106852576310046fae5?OpenDocument>. Public comment is requested by Sept. 28, 2009. The funding opportunity announcement is expected to be released in early October, following the public comment period.

For more information on the EECBG program, visit the program's Web site <http://www.eecbg.energy.gov/>.

22 States get \$354 Million for Energy Efficiency and Conservation Projects

Energy Secretary Steven Chu announced that more than \$354 million in funding from the American Recovery and Reinvestment Act is being awarded to 22 states to support energy efficiency and conservation activities. Under the Department of Energy's Efficiency and Conservation Block Grant (EECBG) program, these states will implement programs that lower energy use, reduce carbon pollution, and create green jobs locally.

States receiving funding under this announcement include: Alabama, Arizona, Arkansas, California,

(continued on next page)

Connecticut, Georgia, Illinois, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New York, Rhode Island, Texas, Washington, Wisconsin, and Wyoming.

These awards to the state energy offices will be used to support state-level energy efficiency priorities, along with funding local conservation projects in smaller cities and counties. At least 60% of each state's award will be passed through to local cities and counties not eligible for direct EECBG awards from the Department of Energy. The EECBG Program was funded for the first time by the American Recovery and Reinvestment Act and provides formula grants to states, cities, counties, territories and federally-recognized Indian tribes nationwide to implement energy efficiency projects locally.

Energy efficiency and conservation projects that are eligible for awards include the development of an energy efficiency and conservation strategy, energy efficiency audits and retrofits, transportation programs, the creation of financial incentive programs for energy efficiency improvements, the development and implementation of advanced building codes and inspections, and installation of renewable energy technologies on municipal buildings.

For a full list of awards to date, visit the Energy Efficiency and Conservation Block Grant Program Web site (<http://www.eecbg.energy.gov/>).

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 mailto: washdc@ashrae.org.

— Bill Walter

Onondaga County Energy and Sustainability Committee

The Onondaga County Energy and Sustainability Committee (OCESC) was formed in 1974 to address issues related to the oil crisis. The original purpose of the committee was “to stimulate and foster energy conservation in Onondaga County by encouraging the adoption of policies and legislation; implement informational and educational efforts on energy conservation; and coordinate efforts of other public and private agencies.”

Now with the scope of the energy horizon widening to include renewable energy, fuel cells, new ways to power cars, geothermal, etc., the role of the OCESC has become more important as an advisor to County government and a communication vehicle to the public sector.

The committee consists of representatives from Onondaga County, the Syracuse School District, Syracuse Center of Excellence, SUNY ESF, OCC, Syracuse University, National Grid, energy marketers, consultants and others. The current chair is Ravi Raman of Ram-Tech Engineering.

A primary objective of the OCESC is to provide advice and counsel of evolving energy issues to the County Executive and County Legislature. The committee has been working with the NYS Fairgrounds to develop a zero-energy bus shelter to demonstrate various renewable technologies.

The OCESC meets at 9:00 AM the first Friday of each month at the Syracuse Chamber of Commerce. Interested members of the community are welcome to attend and contribute.

Registration Form CNY Conference

Attention: ASQ CNY Conference Registrar
Jim Youmans
102 Swansea Avenue
Syracuse, NY, 13206

Name: _____
Company: _____
Address: _____
City/State: _____ Zip: _____
Telephone: _____

Please submit one form for each person attending.

Early Bird (by November 1) _____ \$25
Student (ID Required) _____ \$15
After November 1 _____ \$40
On-site registration fee _____ \$50
Registration by November 8 is appreciated!

AMOUNT DUE (All in U.S. Currency please)
\$ _____
Please make checks payable to:
ASQ – Syracuse Section

For other registration questions, please contact the Registrar:
Jim Youmans
E-mail: jyoumans@twcny.rr.com
Phone: (315) 431-9629

TRAVEL INFORMATION

SUNY-ESF is located at 1 Forestry Drive, Syracuse, New York, near Thruway exit 36. Detailed directions and parking information can be found on the ESF website:
<http://www.esf.edu/maps/>

Practically Green: Applying Quality Tools to Environmental and Productivity Problems
Central New York ASQ Conference
ASQ CNY Conference Registrar:
Jim Youmans
102 Swansea Avenue
Syracuse, NY, 13206



Practically Green: Applying Quality Tools to Environmental and Productivity Problems



Central New York ASQ Sections
Second Annual Conference
Hosted by Syracuse Section
Saturday, November 14, 2009
Nifkin Lounge, Marshall Hall
SUNY- ESF
(College of Environmental Science
and Forestry)
Syracuse, New York

Practically Green: Applying Quality Tools to Environmental and Productivity Problems

ASQ Central New York Fall Conference

We invite you to attend the second annual Central New York Fall Conference in Syracuse, New York on November 14, 2009. This is a great opportunity for quality professionals from all over the region to meet, network, and learn from each other. This conference is a joint effort of the Central New York ASQ Sections, including Syracuse, the host section, and Binghamton, Rochester, Elmira/Corning, Ithaca/Cortland, North Country, and Utica.

The theme of the conference is “Practically Green: Applying Quality Tools to Environmental and Productivity Problems”. The talks focus on the practical uses of quality tools to address the challenges of today. Join us for these informative sessions and enjoy the additional benefit of networking opportunities with your Central New York colleagues!

Register using the form on the back of this brochure, or email the registrar using the address indicated. Be sure to register early to get the Early Bird rate. Note that full-time students qualify for a reduced rate!

The conference will take place at SUNY-ESF in Syracuse, New York. The meeting room is Nifkin Lounge, in Marshall Hall. Lunch is included in the registration fee.

Be sure to watch for updates at our web site: <http://section206.asquality.org/>

CONFERENCE PROGRAM	
9:30-10:00	Registration
10:00-10:15	Welcome & Opening Comments: Jorge Romeu, Syracuse Section
10:15-11:00	“SUNY Requirements and Challenges in the Health Care Professions” Mr. Thomas Peilis, SUNY Upstate Medical University Sponsored by Syracuse Section <i>Come hear about Upstate Medical's innovative sustainability program!</i>
11:00-11:45	“Integrated Systems for Quality, Safety, and Environmental Management” Scot Zaffora-Reeder & Doug Stoddart, Syracuse/North Country Subsection <i>One company's approach to integrating 14001 and 18001 into an existing 9001 system</i>
11:45-12:30	Lunch
12:30-1:15	“Performance Evaluation of Aquatic Ecosystems” Jorge Romeu, Syracuse Section <i>Optimization of a network of lakes using DOE and discrete event simulation</i>
1:15-2:00	“Training Within Industry” Scott Curtis (Albany International) Sponsored by Ithaca/Cortland Section <i>Examples of successful implementation of TWI in a Lean environment</i>
2:00-2:15	Networking Break
2:15-3:00	“Understanding Basic DOE Concepts” Jim Alloway, Syracuse Section <i>DOE principles are easy to understand when approached visually!</i>
3:00-3:45	“Multivariate Control Charts: The ‘Check Engine’ Light Approach to SPC” Casey Volino and Dotty Sempolinski, Corning-Elmira Section <i>A practical approach to monitoring multiple correlated variables</i>
3:45-4:00	Wrap-up and Feedback
4:00-4:45	Central New York Section Leadership Meeting