

March 2007

ASHRAE

newsletter

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

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The President's Message

Like I said last month, I don't put much faith in a Groundhog. Here we are six weeks later and under a significant amount of snow! There's still a good two feet of compacted global warming in my yard even after some rain and mild temperatures have come through. Our year to date snowfall and temperatures are right on track with last year's. It's just more dramatic when it comes all at once!

Hopefully, this month's meeting won't be cancelled on account of the weather as it will prove to be a good one! Tom Walker of Carrier will discuss, "The LEED advantage using Geothermal Water Source Heat Pumps" showing how a geothermal heatpump system is not only an efficient system but also a good choice for a LEED driven project. This month's meeting will be sponsored by Carrier which means that Carrier will pay the \$10 meeting fee for all members who register ahead of time.

How many of you actually read the newsletter? If you've read this far, drop me an e-mail at tom.buswell@carrier.utc.com. This is your chapter folks. We can't go it alone and need your help in keeping the chapter alive. Tell us what you like or don't like. Let us know what you want to see for programs next year. Better yet, step up to the plate and become more active by joining the Board of Governors. The ASHRAE handbooks don't write themselves, we need more engineers and their input to keep them up to date.

Our next meeting will be Wednesday, March 14, 2007 at the DoubleTree (formerly the Wyndham). Our program speaker will be Tom Walker. In addition, we have scholarships to give out. We will start between 5:30 p.m. and 5:45 p.m. and go no longer than 7:00 p.m. Meeting price is only \$10. Don't forget about the cash bar and great pizza! If you have not made reservations yet, please do so now by logging onto the address below or by contacting Paul Conti at 315-487-8791.

Tom Buswell, CNY Chapter President

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

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Historically Speaking

CARRIER CORPORATION — A SUCCESS STORY

We are fortunate to have Carrier Corporation again this year as sponsor of our March history month chapter meeting. But for the genius of their founder, Dr. Willis H. Carrier, we might not have the benefit of their generosity. In reviewing information on Carrier Corporation in our chapter archives, I was able to develop a story about critical moments in the history of the Corporation.

Willis Carrier put himself through Cornell University, graduating with an engineering degree in 1901. He was immediately hired by the Buffalo Forge Company in Buffalo, New York, a manufacturer of heating and ventilating products, where he was promoted to Chief Engineer after five years. As a direct result of his work at Buffalo Forge in developing spray-type air conditioners, a wholly owned subsidiary company was formed in 1907 to engineer and market air conditioning systems. The new company was the Carrier Air Conditioning Company of America, with Willis Carrier as Vice President, although he continued as Buffalo Forge's Chief Engineer and Director of Research. The subsidiary prospered until 1915, when the management of Buffalo Forge started an all-around retrenchment, as they thought the Germans were going to win World War I, with hard times ahead. The Carrier Air Conditioning Company of America was liquidated and most of its employees were let go. It was at this time that

Willis Carrier decided to take a great chance and start a new company, the Carrier Engineering Corporation, to carry on the old business with six others of the liquidated company. With \$35,000 in working capital that they were able to scrape together, the company began and immediately prospered. By 1927, twelve years after it was started, their capital and surplus was about \$1,350,000, all built up from the original investment of \$35,000.

In 1930 the present Carrier Corporation was formed by one of its predecessors, the Carrier Engineering Corporation, by bringing in and putting under one management two other companies — The Brunswick-Kroeschell Company, who for many years had manufactured and sold small ammonia refrigerating machines and large carbon dioxide machines, and the York Heating and Ventilating Company, in the business of making units for factory heating and who also had developed and sold unit coolers and unit air conditioners. By 1932 the country was enveloped in the Great Depression, and Carrier Corporation was having trouble with expenses exceeding income. Willis Carrier was Chairman of the Board of Carrier Corporation and to alleviate this dire situation he took another great chance. He wrote a letter to all employees of Carrier Corporation and its subsidiaries on September 28, 1932 stating that "After most careful consideration it therefore becomes necessary to ask all employees to work for one month without pay." This action enabled the Corporation to get through an extremely difficult financial time and to continue on to become the successful business it is today.

Willis Carrier, Father of Air Conditioning, dared to take chances for success.

Paul Britton, Chapter Historian

Membership Information

updates

It is the time of year when we, the CNY ASHRAE Chapter, nominate the new Board of Governors and Committee Chairs, including TEGA, Membership, Student Activities and Hospitality. It would seem to me that out of all of the Engineering Firms in the CNY area there would be one (or maybe even two) that would want to support the CNY Chapter of American Society of Heating Refrigeration Air-conditioning ENGINEERS, by encouraging and supporting one the their younger engineers to participate in the local chapter. Many of the firms have senior engineers that have already participated and are better engineers for their participation. For the younger engineers there are two main benefits of participation; a better understanding of the main institution representing HVAC

Engineers and its development of the Standards that guide our industry; and a way to get to know other people and resources locally in this industry. These are things that would make a younger engineer a better employee for your company.

Without Participation there is no Chapter.

— Rae Butler

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 cnyashrae@verizon.net

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Program Sneakers

Program Speakers

This month's meeting is sponsored by Carrier Corporation and our speaker will be Tom Walker of Carrier Corporation. Tom will be discussing Geothermal Heat Pump System.

With the rising cost of energy and the trend to build Green Geothermal (ground-source) Water Source Heat Pumps has become one of the fastest growing applications for renewable energy in the world

The April meeting will be the same speaker what was planned for the canceled February meeting. This may look familiar to those of you that read the February Newsletter but here goes.

The April program we will be addressing Indoor Air Quality our speaker will be David Belleville the Northeast Regional Sales Manager for Aircuity, Inc. David has over 23 years experience in the building industry focused on HVAC systems serving

commercial facilities, with a primary focus on technical sales, system design, and project management. David co-founded Aircuity in 2000, which provides multiplexed sensing and ventilation control solutions for commercial buildings that cost-effectively reduce building energy costs and operating expenses while simultaneously improving the building's indoor environmental quality (IEQ). Prior to that, David was the VP of Technical Services for Phoenix Controls, providing sales and technical support for their worldwide sales channel for laboratory ventilation control systems. David is an active member of ASHRAE, IFMA, and BOMA, and taught the Building Operation and Design class for the Boston BOMA chapter this past summer. David has both a BS and MBA degree from Southern New Hampshire College.

— Chris Martin

Job Opportunity

Regional Commissioning Group Leader/ Commissioning Authority

Position Description:

O'Brien & Gere is seeking a Regional Commissioning Group Leader/Commissioning Authority in Syracuse, NY.

Candidate should be experienced in commissioning central utility plants and buildings and possess a solid understanding of building automation and control systems, design and construction process and a functional knowledge of M/E/P systems. Prior experience with mechanical, electrical, plumbing HVAC system integration, TAB, FA disciplines a must.

Key Function

- ◆ Serve as a leader of Commissioning Group in our Syracuse office Act as Principal

Commissioning Authority

Required Skills:

- ◆ Engineering degree BSME/BSEE HVAC systems, energy management control systems
- ◆ 5+ years commissioning experience
- ◆ 10+ years consulting experience
- ◆ Excellent communication and computer skills (Word, Excel, database)

Desirable Additional Skills:

- ◆ Current knowledge of commissioning standards (ASHRAE, PEI, BCA)
- ◆ PE license, Certified Energy Manager
- ◆ Certified Facility Manager
- ◆ LEED AP certification



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Best Practices in Environmental & Green Building Strategies and Techniques

presents

Seminar on Green and Sustainable Schools

Featured speakers include

Rick Fedrizzi,

President, CEO and Founding Chairman of the U.S. Green Building Council (USGBC);

Lindsay Baker,

LEED for Schools Program Coordinator for the USGBC

John Boecker,

Partner with 7group

Carl Thurnau,

Facilities Planning Coordinator for the New York State Education Department (NYSED)

DATE: Thursday, March 22, 2007

TIME: 8:00am – 5:00pm

LOCATION: Rosamond Gifford Zoo, Syracuse, NY

Best Practices in Environmental and Green Building Strategies and Techniques (BEST) is a certificate offered by MACNY in cooperation with SUNY-ESF. This program serves members of the design community (architects and engineers); the contracting community; K-12 educational leaders (including administrators, school board members and other educators); elected officials; and others planning and implementing green building technologies and programs to improve K-12 education.

Professional Certification: Professional certification for engineers (PDHs) and architects (LUs) and CEUs are under review. Up to five professional development hours are expected.

Circle this date on your calendar and plan to join us!

Workshop cost: \$125

*Workshop includes a continental
breakfast starting at 8:00am.
The educational program runs from
8:45am till 5:00pm.
Lunch and cash bar reception
are included.*

**To register and for more information
contact
Susan Palé**

sspale@pobox.com

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www.reinventcny.com

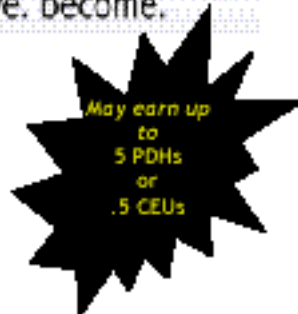
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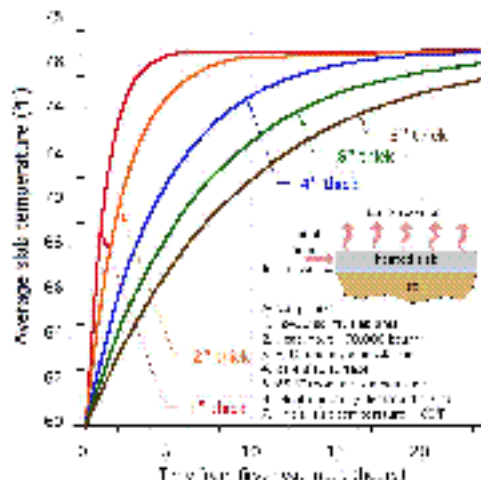
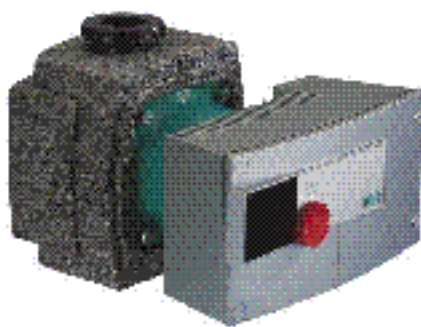
www.esf.edu/certificates

Check www.reinventcny.com for the latest!



Advanced Hydronic Heating Design for Engineers

April 6, 2006, Utica, NY



The seminar:

This seminar is for heating professionals who want to expand their knowledge of hydronic system design using the latest materials and methods available. You'll learn techniques that go well beyond mainstream design practices. Approaches that reduce cost and enhance performance. You'll also receive a detailed seminar manual along with powerful design software that lets you quickly evaluate the "what if" questions associated with routine system design. This software will be demonstrated during the seminar.

This seminar provides 8 professional development hours (PDH) toward NYS Professional Engineers continuing education requirements.

The Topics:

- A comparison of modern hydronic mixing methods
- Applications for multiple modulating boiler systems
- Hydraulic Separation – beyond primary / secondary piping
- Applications for small variable speed circulators
- Minitube distribution systems – ideal for commercial radiant and snowmelting applications
- Home-run distribution systems – you'll never use series piping again
- Hydronic approaches to high capacity domestic water heating
- Distribution efficiency – a huge advantage of hydronic systems

The Instructor:

John Siegenthaler, P.E., is a mechanical engineering graduate of Rensselaer Polytechnic Institute and a licensed professional engineer. He has 28 years of experience in designing hydronic heating systems. John is an Associate Professor of engineering technology at Mohawk Valley Community College, and author of the text: Modern Hydronic Heating. He is a frequent presenter at national and international conferences on hydronic and radiant heating, and writes about hydronic heating technology for several HVAC trade publications.

The Details:

When: Friday, April 6, 2007, 8:00 AM-5:00 PM. Manual, lunch, and breaks provided.

Where: Mohawk Valley Community College, 1101 Sherman Drive, Utica, NY 13501

Seminar fee: \$375, or \$350 each for two or more attending from same firm.

Contact: Sheila Salvatore (315-792-5300, or ssalvatore@mvcc.edu)

ASHRAE Satellite Broadcast/Webcast
**Indoor Environmental Design:
Practical Solutions to Everyday Problems**
April 18, 2007. 1:00-4:00 P.M. EDT

This broadcast will provide specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints. The program will benefit designers, building owners, architects and contractors who are faced with the daily engineering challenge of specifying systems that maximize IAQ, thermal comfort and noise control. This **free** program is sponsored by ASHRAE's Chapter Technology Transfer Committee. For complete details, visit our website at www.ashrae.org/iedbroadcast.

How to Participate

- You may host a broadcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units will be awarded to viewers who complete the "Participant Reaction Form" following the broadcast.

About the Presenters (See www.ashrae.org/iedbroadcast for details)

- Hoy R. Bohanon, Jr.
- William J. Coad
- Lew Harriman
- Daniel Int-Hout
- Christopher O. Muller

New Member Discount

Non-member participants will be given a \$50 discount for applying for ASHRAE membership. A special membership application will be available at satellite broadcast sites or by request at membership@ashrae.org.

Registration

Online registration for satellite site coordinators and Webcast viewers will begin **March 1, 2007**, at www.ashrae.org/iedbroadcast.

Satellite viewer registration will begin **March 15, 2007**.

There is no fee for registration. If you have any questions, call 678-539-1139 or email ashrae-satellitebroadcast@ashrae.org.



Carrier Corporation would like to invite you to join us as the Bynum Training Center for ASHRAE's Webcast on *Indoor Environmental Design*. We hope that you will decide to join us. For directions or reserve space call Denise Bliss at 315.432.7016.