

*the* **Champ** monthly newsletter of the  
**CHAMPLAIN VALLEY CHAPTER OF ASHRAE**

April 2001

Vol 13 No. 10

# APRIL



## President's Letter

By Peter Tousley, C.E.M.

It is the last day of winter! The sap is running almost as fast as the melting snow and ice. Are you ready for the next snowstorm predicted for later this week? By the time you get this we will all know if that materialized.

Speaking of snowstorms, yesterday I finished digging out from the last one. I returned home last Wednesday to dig 3 feet of snow from my driveway before I could get to the backdoor. Thank you Amy Cota for taking charge of what sounds like a great program at the Vermont Technical Center. We can always predict a great program from our student chapter and this year was no exception. But, since I wasn't there, read on for a review by our Vice President.

Mr. Joe Ting, Regional Vice Chair will be with us for our next meeting. His Chapter will host the CRC 2001 and I am sure we will hear all about it. The program sounds interesting with a trade show and training seminars included with the usual training and business meetings for officers and program chairs. Sleepy Hollow (Tarrytown), New York in August promises to be not so sleepy if Joe has any-

thing to do with it that weekend.

The Act 125, Indoor Air in Schools Advisory Panel's first meeting was used to introduce the participants, learn about what has already been done and to gain an understanding of the challenges in front of the panel and the Department of Health to fulfill the requirements of Act 125. The IAQ Tools for Schools program is being used as the basis for work done under this law. The program objectives are as follows:

- Compile and make available to all Vermont Schools, information about materials and practices commonly used in school operation and construction that may compromise indoor air quality or negatively impact human health.
- Develop a comprehensive IAQ/Schools model program that will service the basic requirement for a school's qualification to receive a State issued certificate recognizing the school's effort to ensure indoor air quality.
- Issue environmental health certificates to 50% of Vermont schools by January 2005.

Anyone wanting to have input into what I bring to the panel or receive a copy of the minutes should call me or send me a note at EUM@aol.com.

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Congratulations to John and Susan Pifer who recently adopted Alec Min Soo Pifer. Alec has done some extensive traveling so far: Korea to California to Burlington, Vermont.



## Chapter Program

Russ Pratt [rpratt@hallam.com]



### April Meeting

As HVAC professionals, we are responsible for identifying, evaluating and recommending energy efficiency options for our clients. Most of our clientele do not grasp technical issues and sometimes miss the full picture being presented. It is our job to be a combination of a technical analyst, economics expert, and salesperson. Our clients are counting on us!

This months program is a case study of a REAL job that went through this process. The presentation you will see was presented to a non-technical audience with the goal of helping them understand technical solutions and make some good economic decisions. The two energy conservation measures that were evaluated for Northeast Cooperatives in Brattleboro were: central refrigeration vs. unitary, and cogeneration.



Steve Poole will be presenting this project to us. I understand he has given this presentation at a local AFE meeting and received high marks. This same project received financial incentives from Efficiency Vermont and will be a model for other facilities that have refrigerated warehouse space.

Plan on attending this months meeting and see how life cycle thinking can impact the decision making process.



Joe Ting will be visiting us this month. I'm sure we will be getting an update on CRC 2001 which is quickly approaching.

**LAKE CHAMPLAIN DINNER CRUISE**

**JUNE 6th**

**SPOUSES NITE**

## 2000-2001 CVC PROGRAM CALENDAR

### September – Past Presidents Night

Tech Session: At Vermont Gas Systems  
Topic: Tour of Micro Turbine installation  
Program: Robert Howe, Labor & Industry  
Topic: 1999 Fire Prevention and Building Code

### October - Membership Night

Tech Session: Russ Mills, PhD  
Topic: Discussion of Energy Topics  
Program: Russ Mills, PhD  
Topic: Future Social and Political Issues on Energy

### November

Tech Session: Tom Kelly  
Topic: UV-C Lamp Technology  
Program: Tom Kelly  
Topic: UV-C Lamp Technology

### December

Tech Session: Rich Remke & Joe Arena  
Topic: Demand Ventilation Technology  
Program: Rich Remke & Joe Arena  
Topic: Demand Ventilation Strategy & Design

### January – Student Night

Tech Session: Tom Aubee  
Topic: Micro Turbine Technology  
Program: Tom Aubee  
Topic: Fuel Cell Applications

### February

Tech Session: Vermont Department of Public Service  
Topic: Round Table Discussion of Deregulation  
Program: Bill Steinhurst, Vermont DPS  
Topic: Electric Utility Deregulation

### March

Tech Session: *afternoon seminar*  
Topic: *Chiller Plant Design - at VTC*  
Program: *Continuation of afternoon seminar*  
Topic: *Chiller Plant Design - at VTC*

### April - Student Night

Tech Session: *No Tech Session*  
Topic: *Social Hour*  
Program: *Steve Poole - Novus Energy*  
Topic: *Case Study: Life Cycle Thinking at Northeast Cooperatives*

### May - Membership Night

Tech Session:  
Topic: *Refrigeration Technology*  
Program:  
Topic: *Refrigeration topic*

### June – Recognition of Volunteers Night – Spouses Night – Dinner Cruise

Tech Session: *Joint meeting with local CSI, AIA, RSES, & AFE*  
Topic: *Social Hour (get acquainted with other societies)*  
Program: *Dinner Cruise on Spirit of Ethan Allen II*  
Topic: *Installation of Officers & Recognition of Volunteer Efforts*

*All entries in italics are still in the planning stages. Your suggestions and comments are welcome: send to rpratt@hallam.com.*



## Research and Promotion

Peter Tousley [eum@aol.com]

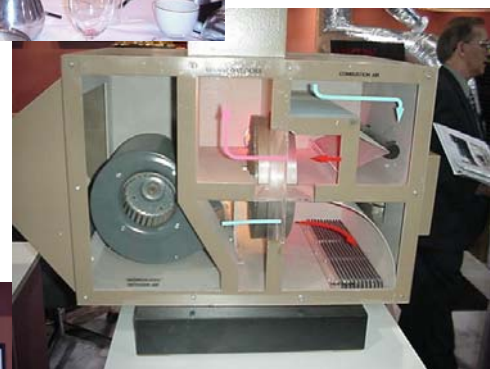
We are well on our way to the 25% mark in our annual campaign. Thank you to the R. F. Peck Company, Control Technologies and James O'Boyle for their generous donations. We still have some matching grant money for individual member's contributions. Don't miss out on your opportunity to double your contribution!

## Student Activities

Ellen Reed [ereed@bonhagassociates.com]

First of all, I would like to say congratulations to the VTC student chapter of ASHRAE. The chiller plant seminar and monthly meeting that they hosted last month was absolutely phenomenal! I am sure that everyone would agree with me that it was a great afternoon! Great job!

As spring weather returns to Vermont (hopefully sooner rather than later), one issue that I would like to discuss with members are summer jobs and internships. I am trying to set up some internship positions with engineering firms in the state of Vermont. I have a couple of students who are very interested in getting some experience in our industry, and summer employment is the perfect opportunity. If there is anyone out there who might be looking for a little extra help and would be willing to guide a young mind, please contact me. I would very much like to place a few good students in engineering type jobs.



### **HVAC Senior Design Engineer**

Vermont Heating & Ventilating Co. located in north-west Vermont has an immediate opening for a Plumbing & HVAC Designer. Applicant shall have 7 yrs. min. experience, an AAS degree in Mechanical Engineering, & be capable of performing building system field surveys, load estimating, code review, & design/layout of plumbing & HVAC Systems for commercial applications.

Auto-CAD proficiency required. Candidate shall have excellent communication skills and be geared for a Design/Build Team environment. We offer a competitive salary and excellent benefits package. Resume to: (e-mail) jobs@vhv.com, (fax) 802-655-8809, (mail) VHV, 16 Tigan Street Suite A, Winooski, VT 05404. EOE



### **FLASH BACK**

Last months seminar and program hosted at VTC in Randolph Center



## MARCH MEETING REPORT

by Amy Cota

As promised the March monthly meeting and the Chiller Plant Design seminar at VTC were a real treat! The student chapter did an excellent job in organizing the event.

All of the speakers shared experience based information and I'm betting not one of the attendees walked away without learning something new!

Our dinner speaker Joe Becker, PE gave an enlightening presentation on the basic parameters that we use to design chillers and explained why, in some situations, we may want to look at those parameters more closely before making our selections. In some cases small changes in the basis of our design could save 4-6% on the base chiller cost and then another 6% on the operational cost over the life of the chiller. This may not seem like a lot, but with today's tight construction budgets and customer expectations for performance... If you could save your client money and give them a system that has better performance wouldn't you do it??? The other point that Joe left us with is to always look at the entire system's energy usage and not just the chiller. The equipment you think may be the energy hog may not actually be at certain operating conditions.

For more detailed information on this presentation contact Joe Becker of Becker Learning (716) 624-1955.

### **Board of Governor's**

The BOG Meeting was held at Trader Duke's Restaurant on March 12th at 12:00 pm. Minutes for this meeting were not submitted for publication.





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# Don't Forget to Register Early !!!



## New England Air Systems, Inc.

### EMPLOYMENT OPPORTUNITIES

Experienced **HVAC and Plumbing Estimator** with five years of experience in estimating sheet metal, plumbing, and piping for commercial and industrial projects. Computer literate with estimating software knowledge a definite plus.

Experienced **HVAC & Plumbing Designer** with 5 – 10 years experience in commercial and industrial design. Successful candidate will possess excellent communication, time management and follow-up skills. You will be responsible for system design and project development from concept to completion. BSME with AutoCAD ability preferred.

Entry-level **AutoCAD Draftsperson** with 1-2 years experience in AutoCAD 14 and 2000. Self-starter with good attitude, willingness to learn, and ability to take directions in a teamwork atmosphere.

All positions are immediate start with a good compensation package including medical, paid holidays, vacation, and 401(k). Please send your resumes with salary history to HR Dept., New England Air Systems, Inc., PO Box 525 Williston VT 05401. EOE

### Editor's Notes

Steve Poole [spoole98@aol.com]



I have just a couple of months left as newsletter editor! It's time to start passing the proverbial "torch" to the next editor. If you like to create publications such as this and have a little spare time, our chapter could use your help. Call me if you want to know what is involved in this production. For me, it's on to serving Region I as the Student Activities RVC.

### Tid-Bit of the Month

**"Age & treachery will always overcome youth & intelligence."**

- Bernie Young

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## *The Champ*

*Newsletter of the Champlain Valley Chapter of ASHRAE*

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### **MAY MEETING**

**When:** May 2nd  
**Where:** Windjammer Restaurant  
1076 Williston Road  
South Burlington, VT

**SCHEDULE:**

4:30 to 5:45	BOG Meeting
6:00 to 6:45	Tech Session:
7:00 to 8:00	Dinner at the Windjammer \$23 per person \$10 per student
8:00 to 8:20	General Business
8:20 to 9:00	After Dinner Program: <b>Refrigeration Specialties and How to Apply Them</b>
9:00	Adjourn

