



the Champ

Monthly Newsletter of the CHAMPLAIN VALLEY CHAPTER OF ASHRAE

Serving Vermont Since 1969

President's Message



The year is finally coming to end. We have had an excellent year with a great attendance at our monthly meetings. I want to thank all of you for taking the time to get out to our monthly meetings to support our chapter. I know it is tough to do so during these challenging times.

We had another great turnout at our December's meeting. Big thanks to Nick Laskovski of Alteris and Bill Maclay of Maclay Architects for presenting to our

group. The new meeting location at The Hampton Inn was a great success and we received positive feedback from the members. We will continue to hold our monthly meetings at The Hampton Inn. Just a reminder to all who attend our monthly meetings that is very important to RSVP to Ray Hickey by the date specified in the meeting reminders. Also for those who RSVP and cannot make the meetings for whatever reason, please email myself and or Ray Hickey to let us know.

The VTCASHRAE Chapter will be sending 6 students to the 2011 Winter ASHRAE Meeting in Las Vegas, NV. Our chapter has agreed to sponsor part of the trip for the students by donating \$1,076.82 to VTCASHRAE Chapter. I wish all of you a safe and educational trip and remember money won is as sweet as money earned.

Just a reminder for those of you planning on nominating an individual for the 2011 Vermont Engineer of the Year or Young Engineer of the Year please submit the nominations forms to me. If you need a copy of the nomination forms and selection procedures please let me know. The nominations forms need to be submitted to me by January 4th at the latest. We will be selecting our nominee for the EOY and YEOY during our January 5th BOG meeting. We need to submit our ASHRAE CVC nominations to the Chair of the 2011 Vermont EOY/YEOY by January 16th. So please get me your nominees by January 4th.

I hope to see all of you at our January meeting on Wednesday January 5th. Please advise the meeting location will be at The Hampton Inn off from Exit 16 on I89. The meeting will be a joined meeting with RSES. Jerry Kelman of Rawal Devices will be presenting on the applications of their APR control device and Walt Joncas of Hy-Save

Technology will be presenting on liquid refrigerant pumps and their applications in HVAC systems.

Lastly, I wish everyone safe travels this holiday season and a Happy New Year!

Sincerely,
Shawn LaBelle, Chapter President

Next Meeting

January 5th @ The Hampton Inn, Exit 16 off I89
Joint Meeting with RSES

BOG Meeting 4:30 PM

Technical Session 6:00 PM: Jerry Kelman of Rawal Devices Inc will be presenting on the applications of their APR Control device for capacity modulation of refrigeration systems for better comfort, reliability, and energy efficiency.

Dinner 7:00 PM

Main Presentation 8:00 PM: Walt Joncas of Hy-Save Technology will be presenting on liquid refrigerant pumps and their applications in air conditioning, refrigeration systems making them more efficient and provide energy savings.

Meeting Cost

**\$30/CVC & RSES Member
\$35 Non-Members**

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2010-2011 ASHRAE CVC MEETING CALENDAR

December 2010
Vol. 25 No. 5

September 1 st	October 6 th	November 3 rd	December 8 th	January 5 th
<p>The Essex</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>HVAC Seismic Restraints</p> <p>Part 1 - Codes and Standards</p> <p>Part 2 - Applications Steve Fey - Mason Industries</p>	<p>The Essex</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>Tech Session - Chilled Beams / Krueger</p> <p>Main Presentation - Vermont Commercial Building Energy Code</p> <p>Tim Guiterman, Navigant Consulting</p>	<p>The Essex</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>Membership Promotion and Joint Meeting with Vermont Green Building Network (VGBN)</p> <p>USGBC - Lisa Whited - LEED Accreditation, Training & Maintenance</p>	<p>Hampton Inn</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p>	<p>Hampton Inn</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>Joint Meeting with RSES</p> <p>Speakers</p> <p>Jerry Kelman (Rawal – APR Control Devices)</p> <p>Walt Joncas (Hy-Save Technology – refrigeration pumping)</p>
February 9 th	March 2 nd	April 6 th	May 4 th	June 1 st
<p>Hampton Inn</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>ASHRAE Distinguished Lecturer</p> <p>Chris Mathis presenting on:</p> <ol style="list-style-type: none"> 1. Energy Efficient Window & Fenestration Technologies 2. How Long Will It Last? – Addressing the Challenge of Sustainability 	<p>Hampton Inn</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>Facility Tour Tentative – Present 1 small scale chiller applications Present 2 TBD</p>	<p>Location TBD</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>Meeting Sponsored by Vermont Technical College (VTC) Student Chapter Program TBD</p>	<p>The Essex</p> <p>BOG Meeting - 4:30 pm Presentation - 6:00 pm Dinner - 7:00 pm</p> <p>STD 189.1 Speaker TBD</p>	<p>End of Year Special</p> <p>Location and Topic TBD</p>



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Technology Transfer

I would like to take this opportunity to thank all the ASHRAE members and students who attended last month's meeting.

January's program will be a joint meeting with RSES and will feature two refrigeration presentations. The technical session will be presented by Jerry Kelman of Rawal Devices Inc who will be presenting on the applications of their APR Control device for capacity modulation of refrigerant systems for better comfort, reliability and energy efficiency.

The second presentation will be presented by Walt Joncas of Hy-Save technology who will be presenting on liquid refrigerant pumps and their applications in air conditioning and refrigeration systems making them more efficient and providing energy savings.

I am still looking for one volunteer to join myself and Wayne Vanasse to create a CTTC committee for our local chapter. The main task of this committee would involve brain storming potential program topics and identifying speakers or ways to get feedback from our members on topics of interest for our members. This is an opportunity for some of our new and younger members to become more involved in the operation of our local chapter with minimal time commitment. We would work out the best method for conducting committee meetings once our group has been established. Please send me an email or give me a call if you have interest in helping out with Chapter programs this year.

Another beneficial thing for members to be aware of if you have any documented personal contact with government officials at any level or with other business or professional groups which promote ASHRAE related subjects or chapter goals and objectives, please feel free to send me the details and I will provide recognition in our newsletter and our chapter gains Presidential Award of Excellence (PAOE) points as well for such activity by our members. The same recognition and chapter benefits apply to any member who earns or renews an ASHRAE certification.

Here's wishing you all a Merry Christmas and happiness for the New Year!



Dec. BOG Meeting Minutes

Dec. 8th, 2010 BOG Meeting Minutes

Date: 12/8/10
Location: The Hampton In
Time Called to Order: 4:44pm
Called to Order By: Shawn, President
Minutes Recorded By: Nathan Mascolino, Secretary

ATTENDANTS

Shawn LaBelle	Vermont Mechanical Inc
Dick Wilcox	VHV
Tom Dacres	VHV
Nathan Mascolino	VHV

LAST MEETING MINUTES

Motion to approve Nov, 2010 meeting minutes was put forth by Peter B and seconded by Sandy L, motion passed.

OFFICER REPORTS

President Report/Chapter Operations:

Shawn Labelle

Discussion was opened regarding the newsletter editor/ website admin. Shawn reported that although the current admin is willing to continue through the end of the ASHRAE year, they would prefer if we found a replacement ASAP.

Peter B had spoken with Cara Gorman, and presented the board with a cost estimate from her. She predicted the job would take 4 hours per month. Her charge would be \$25/ hour.

Ken S suggested we ask the current admin if they would be interested in continuing the work for us if we were to offer them a Fee rather than expect them to do it on a volunteer basis. Shawn will check with them.

Shawn is to make an announcement in the main meeting asking for suggestions from the group.

The topic was tabled until the next meeting where Shawn hopes to have additional information and options.

Shawn reminded everyone to update their PAOE points on the web.

Dick W reported that he has done additional research on the projector purchase and expects to have the new projector in time for the Jan meeting.

Discussion was opened on the formation of an awards committee. The topic was tabled until the next meeting.

Shawn Reported that everyone has now paid for the golf outing.

Nathan M reported that the new banner supports had arrived and would be set up for the Dec Meeting.

Discussion was opened on the Engineer of the year, and Young engineer of the year nomination. Shawn will send the nomination forms to everyone in the chapter and request that all applications be returned before the Jan BOG meeting so the Board can make a decision.

Discussion was opened regarding the Engineering week banquet. The engineering week committee has requested that ASHRAE send a representative speak during the opening remarks. Nobody in the BOG volunteered to perform this speaking. Shawn will ask the general meeting if anyone plans to attend, and if they would like to speak on behalf of ASHRAE.

Discussion was also opened regarding the ASHRAE CVC chapter becoming a sponsor of the banquet. The topic was tabled until the next BOG meeting.

Discussion was opened on the location of future meeting places for the CVC chapter. Information from the surveys from the Hampton Inn meeting will be reviewed at the next BOG meeting and further decisions can be made at a later time.

Discussion was opened in regard to the award of scholarships by the CVC chapter.

Ken S made a motion to award 1 scholarship to a VTC student in the amount of \$500.- The chapter will also award the past presidents scholarship to any eligible college student in the amount of not less than \$2000.- The actual scholarship amount to be equal to the income of the chapter due to newsletter advertisements. If less than the \$2500.- is collected by the newsletter advertisement the chapter will pay the difference from the general fund. Scott A seconded the motion. Motion Passed.

President Elect/Student Activities Chair Report: Mike Cook

Mike Cook was not in attendance. The meeting schedule

discussion was tabled until next week.

Vice President/Membership Chair Report:

Tom Dacres

Tom D will send the new member emails to Shawn and Ken S. The topic of providing free meeting meals for unemployed members was discussed and tabled until the next meeting.

Treasurer Report: Ken Secor

Ken's full monthly report will appear in the newsletter

Secretary Report: Nathan Mascolino

Nathan Had nothing to report

Resource Promotion: Sandy Laflamme

Sandy reported a donation request to Lyndon State. The topic was tabled until next month

History: Gretchen Langfeldt

Nothing to report

Reception: Ray Hickey

Nothing to report.

Refrigeration: Peter Bailey

Peter B handed around a breakdown on the total money raised during the refrigeration seminar. A total of \$1931.58 was donated by the CVC chapter to research and promotion.

NEW BUSINESS

Tom Zoller reported that the CRC 2013 committee was beginning formation and a kickoff meeting is likely in Jan. The committee is currently working to determine a Burlington area hotel.

The VTC Student Chapter is planning on sending 6 students to the winter meeting. They have asked the CVC chapter for a donation to help pay the students way. The topic was tabled and shall be discussed via email within a week of the BOG meeting.

MEETING ADJOURNED

Motion to adjourn made by Tom D, seconded by Scott A.
Meeting adjourned @ 1:25 PM
Meeting adjourned @ 5:53 PM

These minutes are the writers understanding of the discussions involved. If there are any exceptions taken, or omissions, please notify the writer immediately.

General Meeting Minutes

Date: 12/8/10
Location: The Hampton Inn
Minutes Recorded by: Nathan Mascolino, Secretary
Attendance: 35

ATTENDANTS

Scott Alexander	LN Consulting
James Ashley	Green Mountain Geothermal
Pete Bailey	Dodge Engineering
Mike Cook	ARC Mechanical
Tom Dacres	Vermont Heating & Ventilating
Rob Favali	Dubois & King
6 Corey Griffiths	Vermont Mechanical Inc.
Ray Hickey	Advanced Comfort Systems
Walt Joncas	ECT HY-SAVE
Steve Kreigh	Mylan Technologies
Shawn LaBelle	Vermont Mechanical
Sandy LaFlamme	Efficiency Vermony
Gretchen Langfeldt	Switchback Brewing Co.
Jim LaVallee	Vermont Mechanical
Doug Maddox	Maddox Energy Consulting
Nathan Masocilino	Vermont Heating & Ventilating
Bill Moore	Tcorp Inc.
Steve Poole	Vermont Heating & Ventilating
Jay Pilliod	Efficiency Vermont
Dan Reilly	Gourley Company
Bill Root	GWR Engineering
Ken Secor	KPS Consulting
Tim Valyou	Vermont Heating & Ventilation
Dick Wilcox	Vermont Heating & Ventilating
Tom Zoller	Trane
Elon Parker	Student
Brennan Jewitt	Student
Brian Smith	Student
Dan Aubin	Student
Iris Davis	Student
Stephen Gross	Student
Stephen Smith	Student
Tim Meyer	Student
Guen St. Sauveur	Student
Nick Laskovski	Alteris (Speaker)
Bill Maclay	Maclay Architects

TECH SESSION:

The tech session was given by Nick Laskovski of Alteris. Nick spoke about community scale wind turbine instillation and operations.

MAIN PRESENTATION:

The main presentation was given by Bill Maclay of Maclay Architects. Bill spoke on net zero construction techniques, and how they can effect commercial and residential buildings.

The Hampton Inn provided a nice facility and served a fine meal.

These minutes are the writers understanding of the discussions involved. If there are any exceptions taken, or omissions, please notify the writer immediately.

Resource Promotion

Have you seen the photo of the plaque that was awarded last month to Hill Phoenix from ASHRAE CVC? It is beautiful and was greatly appreciated by Hill Phoenix. Our Chapter has gained quite a bit of fame recently due to the Hill Phoenix news release regarding the ASHRAE CVC plaque they were awarded for donating the funds generated from their refrigeration rack system training to our 2010-2011 ASHRAE RP Campaign. We received recognition and kudos from ASHRAE Headquarters and Region I as well for this significant donation and good publicity, so thank you very much, Hill Phoenix and Pete Bailey!

Have you had a chance to make your investment in ASHRAE Research and Promotion yet? If not, please consider mailing a check, payable to ASHRAE Research Promotion, either to ASHRAE Research Promotion, 1791 Tullie Circle, Atlanta, GA 30329 or to Sandra LaFlamme, Efficiency Vermont, 255 South Champlain Street, Burlington, VT 05401. You may also donate on-line at https://www.ashrae.org/aboutus/resource_promotion.asp.

GENERAL MEETING:

Decembers meeting was held at the Hampton Inn & Events Center Burlington.

Student Activities Report

Student Activities Report

VTC Chapter

Committee Chair: Shawn LaBelle
Student Chapter Advisor: Chris Reilly

I want to thank the students and Chris Reilly for making the drive up from Randolph to attend our December's meeting. It was great to have a group of enthused students attend the meeting.

We will be fortunate enough to have 6 students attending the 2011 ASHRAE Winter Conference in Las Vegas, Nevada this coming year. To help the students finance their trip the Chapter will be donating \$1076.82 to the VTC ASHRAE Chapter. The students have done a great job fundraising and have been fortunate enough to have a few other donors. Big

thanks to Lauri Sybel and the VTC Student Council for supporting the student chapter.

I will be setting up a Resume Workshop for the students of the ASHRAE Chapter around the first part of the year. This will most likely be in the evening. I would appreciate it if anyone would be willing to help participate. I will have more information available soon so please contact me if you are interested. Along with that if your employer or if you know if any companies that are offering full time positions starting the summer of 2011 along with any summer internships please contact me with the information so I can forward it to the students at VTC.

Thanks!
Shawn LaBelle

VTC ASHRAE Student Chapter 2010-2011



Treasurer's Report

As of today, December 17th 2010, all bills are paid and our TD Bank checking account balance is \$17,771.76 - down last month by \$4,137.90 The reason for the huge drop (and the huge gain the prior report) was simply the timing of income from our "Refrigeration Rack-Day Seminar" - and the cost of the meals and facility that income was offset by. I don't anticipate any future anomalies near term.

The last regular meeting took place at The Hampton Inn in Colchester. The meal was good and the location more convenient for 90% of those attending. It looks like The Hampton may be our regular meeting place.

I wanted to thank the BOG for making the treasurer's job simple and to wish all of you a Merry Christmas. Happy 2011 as well.

Ken Secor, Treasurer

January 5th Speaker Bios

Jerry Kelman has worked in the northeast for most of his life in residential and commercial contracting and then as a manufacturers representative for several manufacturers including Desertaire, McQuay, York and Copeland Compressors. He became national sales manager for Rawal Devices in 2009. Rawal has been in business for 18 years selling their products in the OEM market as well as through distribution markets.

Walt Joncas has worked with Hy-Save Technology since 1988. He worked with Robert Hyde who in 1986 invented and patented the first practical, magnetically coupled liquid refrigerant pump. Walt worked closely with Robert Hyde and was involved with experimentation and development of the apparatus resulting in ten additional liquid refrigerant pumping patents containing over 100 claims. For the past 22 years Walt has traveled the US training technicians and engineers in the use of refrigerant pumps. He has lectured at UVM, Cornell, University of Massachusetts, Northeastern, Brown and several SUNY campuses. He has presented to many Region 1 ASHRAE and RSES chapters as well as to audiences at DOE, FEMP, DOD, NIST, AEE and AFE. Walt is considered by his peers to be the most knowledgeable liquid refrigerant pumping expert in the USA.

Walt holds two recent patents jointly with Peter Bailey and Greg Dodge that received ASHRAE Region 1 honors and honorable mention from ASHRAE International this past year.

Chapter Photos



February 3rd 2010 Refrigeration Night



December 10th 2008 Champlain Valley ASHRAE Seminar presentation - Modern Heating Options

Better Buildings by Design Conference Returns to Vermont

The region's premier design and construction conference returns to the Sheraton Conference Center in Burlington on February 9-10, 2011. Presented by Efficiency Vermont, the Better Buildings by Design 2011 conference will offer more than 35 presentations on approaches and technologies that are being used in today's energy-efficient homes and high-performance commercial buildings. Conducted by leaders in the industry, sessions will be featured in four simultaneous tracks on mechanical systems, lighting, building envelope, and innovations/high performance. More than 1,000 attendees are expected.

The keynote address, "Integrative and Regenerative Design: Redefining the Practice of Sustainability," will be given by Bill Reed, an internationally-recognized proponent and practitioner of sustainability. Mr. Reed will explore the idea that making buildings, cars, products, and processes more efficient is simply the starting point for achieving sustainability. He will address practical concepts of integrating technical and living-system design. As a principal in three firms, Mr. Reed has consulted on more than 200 green-design commissions and dozens of LEED projects and is a founding board member of the U.S. Green Building Council.

Workshop topics and presenters for the mechanical-systems track will include:

- Commercial Building Re-Tuning; Overview & Key Operation Faults & Corrections

Srinivas Katipamula, Pacific Northwest National Laboratory

- Residential and Commercial Biomass Options

Averill Cook and Charles Agnew III, Biomass Commodities

- HVAC and Power Supply Systems for Micro-Load Homes in a Cold Climate

Andy Shapiro, Energy Balance, Inc., and Bill Heigis of Bill Heigis, Builder

- Getting a Mid-Size Solar Hot Water System to Operate Properly

Marc Rosenbaum, South Mountain Company

- Ground Source Heat Pumps: Systems & Applications

Dr. Gary Phetteplace, GWA Research LLC

- Chiller Optimization Using Refrigerant Flow Meter: A Case Study

Greg Dodge, DEI Dodge Engineering & Controls, Inc.

- Downsizing Mechanical Systems after Retrofits

Skip Hayden, Integrated Energy Systems, CanmetENERGY

In addition to workshop sessions, conference participants will have access to more than 50 exhibits and demonstrations of cutting-edge, energy-efficient products and services for the construction industry. Also featured throughout the conference will be displays of construction and major renovation designs receiving Efficiency Vermont's "Best of the Best" awards.

Conference participants will be able to earn continuing-education credits from a range of professional organizations, including the Association of Energy Engineers, the Association for Facilities Engineering, and the Construction Specifications Institute.

As in past years, the conference's popular Wednesday-evening reception will offer attendees the opportunity to connect in a casual atmosphere. This event will feature complimentary hors d'oeuvres, a cash bar, and more. All are welcome at the reception, free of entry charge, including those unable to attend the conference.

Groups registering four people will receive a free fifth registration. Special pricing is available for lodging accommodations at the Sheraton Burlington. For more information, visit www.encyvermont.com/conference or call 877-248-9900.



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February 9-10, 2011

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Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

Vision Statement

ASHRAE

- ~ Will be the global leader in the arts and sciences of heading, ventilation, air conditioning & refrigeration.
- ~ Will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- ~ Will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

Presidential Award of Excellence Totals

Presidential Award of Excellence (PAOE) is the point system ASHRAE Region and Society use to help track the Chapter's activities. The chapter gets points in the below categories for activities that we do throughout the year. The awards banner that you see at the meetings represents CVC's accomplishments over the years. Below are definitions of what some of those awards are. If you want to know more about PAOE check out the www.ashrae.org website and do a search for the 2006-2007 PAOE newsletter.

End of Year Awards Available to the Chapter:

PAOE: Minimum in five of the six categories

Special Citation: Minimum in 5 of the 6 categories with a minimum total of 4600 points

STAR: PAR in all categories

Honor Roll: PAOE for at least 4 consecutive years

High Honor Roll: STAR for at least 4 consecutive years

Premier: PAOE every year since the chapter's inception or since 1970; minimum of 4 years; chapter's first year is excluded

Sustainability Activities Award: A Chapter Sustainability Award in the form of a certificate is available for each chapter that obtains a total of at least 200 points from the items listed under Sustainability

Activities in the Chapter Operations category of PAOE. The Chapter with the highest PAOE Sustainability point total will receive a Regional award in the form of a glass plaque and a certificate. Level 1 = less than 100 members; Level 2 = 100-249, Level 3 = 250-449, Level 4 = 500 or more.

Category	PAR	(2010-11)
Membership Promotion	800	760
Student Activities	500	445
Technology Transfer	850	150
Research & Promotion	1050	715
History	200	0
Chapter Operations	500	265
Chapter TOTAL	3900	2335

2009-2010 BOARD OF GOVERNORS

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