



The Champ Monthly Newsletter

of the Champlain Valley Chapter of ASHRAE

PRESIDENT'S MESSAGE



Happy New Year! The half way point of the ASHRAE year is upon us and what an exciting time it is.

ASHRAE founded, and currently serves as Chair of, the High-Performance

Buildings Congressional Caucus Coalition. As such, ASHRAE's Government Affairs Office in Washington, DC alerted us to U.S. Rep. Peter Welch's ascension to the Co-Chairmanship of the High-Performance Buildings Congressional Caucus. We take special pride in knowing that a fellow Vermonter is taking a lead role in furthering our Society's commitment to serve the built environment, create value, and recognize the accomplishments of others.

The officers and Board of Governors of ASHRAE Champlain Valley Chapter have sent Rep. Welch a letter of reaffirmation of ASHRAE support. We look forward to working with him in making not only Vermont, but the United States as a whole, a more energy-efficient and independent nation.

We also continue to look for volunteers to sit on the ASHRAE CVC nominating committee. If you would like to serve your chapter or know a good candidate please let me know.

- Tom Dacres

ASHRAE CVC UPCOMING EVENTS

January 2013 Monthly Meeting

When: Wednesday, January 9th

Where: The Hampton Inn, Colchester, VT

Schedule:

4:00PM BOG Meeting

5:00PM Social Hour

6:00PM 1st Topic - *"Indoor Air Quality and Mold: Legal Issues and Liability Concerns for Engineers and Related Industry Professional"*

7:00PM Dinner

7:45PM 2nd Topic - *"Document Management and Discovery – How Documents and E-mails are Used in Litigation"*

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2012-2013 ASHRAE CVC MEETING CALENDAR

JAN 2013
Vol. 27 No. 04

September 5	October 3	November 7	December 5	January 9
<p>4:30 pm: BOG Meeting @ Hampton</p> <p>6:00 pm: Hydronic System Design & Boiler selection- Edward Sullivan (Weil McLain)</p> <p>7:00 pm: Dinner @ Hampton</p> <p>8:00 pm: Variable Speed pumping - Bill Reid Urell Inc</p>	<p>4:30 pm: BOG Meeting @ Hampton</p> <p>6:00 pm: Brattleboro Food co op - Andy Sapiro</p> <p>7:00 pm: Dinner @ Hampton</p> <p>8:00 pm: 2012 Fire & Building Safety Code - Bob Patterson</p>	<p>4:00 pm: BOG Meeting @ Hampton</p> <p>5:00 pm: Social Hour - Membership Promotion Night</p> <p>6:00 pm: ASHRAE CVC Business</p> <p>6:30 pm: Dinner @ Hampton</p> <p>7:15 pm: Richard Vehlow - Region 1 RVC MP Presentation</p> <p>7:30 pm: Natural Gas in VT. VT Gas future plan/ Fracking-Facts</p>	<p>4:00 pm: BOG Meeting @ Hampton</p> <p>5:00 pm: Social Hour - Holiday Mixer</p> <p>6:00 pm: ASHRAE CVC Business</p> <p>6:30 pm: Dinner @ Hampton</p> <p>7:30 pm: Sustainable Presentation Joint meeting with VGBN/ AIA</p>	<p>4:30 pm: BOG Meeting @ Hampton</p> <p>6:00 pm: Christopher M. McDonlad. IAQ & Mold: Legal Issues and Liability Concerns for Engineers & Related Industry Professionals</p> <p>7:00 pm: Dinner @ Hampton</p> <p>8:00 pm: ASHRAE Continuation of 6pm presentation</p>
February 6	March 6	April 3	May 1	
<p>4:30 pm: BOG Meeting @ Hampton</p> <p>6:00 pm: - TBD</p> <p>7:00 pm: Dinner @ Hampton</p> <p>8:00 pm: - TBD Meeting Theme: Variable Speed Primary Flow presentation</p>	<p>Time TBD</p> <p>Type of Meeting: Tour/ Dinner</p> <p>Meeting Theme: Joint meeting with RSES/ AIA. Facility Tour of the new Green Mountain Coffee Roaster - Essex Facility / dinner Q/A to follow</p>	<p>6:00 pm: - TBD</p> <p>7:00 pm: Dinner @ Vermont Technical College</p> <p>8:00 pm: - TBD</p> <p>Meeting Theme: Meeting at Vermont Tech College, joint meeting with student chapter.</p>	<p>5:30 pm: Tour + BBQ + MP night</p> <p>Meeting Theme: Tour of the Switchback Brewery new bottling line.</p>	



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TECHNOLOGY TRANSFER

It's Holiday season in Vermont! The brand new year is just around the corner! And I can feel it in my soul that this is going to be a good snow winter.

Thank you to all who attended the December meeting, it was a wild success. The VGBN group joined us, the food was excellent, and the single meeting topic was good. Our meeting attendance was well above the average and I hope everyone enjoyed it as much as I did. I hope that we can keep the meeting attendance momentum going for our January meeting. We have a great distinguished lecturer coming in from Kansas City to talk to us. Get the word out... it's going to be a good one.

In February we will be having another invited lecturer. He will be traveling to Vermont to speak at the Efficiency Vermont Better Building by Design conference. While he is here he is going to come and speak to our group. Keep your ear to the ground for his speaking topic. The programs committee is working with him to arrive at a topic that will complement the seminar that he is giving for the BBD conference. He will not simply be giving the same topic. In March we will tour the new Green Mountain Coffee Roaster Facility in Essex VT. April will once again see us at VTC, and in May we are putting the finishing details on a tour of the new Switchback bottling line.

Stay warm and put some wax on your skis

- Nathan Mascolino

TREASURE'S REPORT

As of January 2, 2013 our TD Bank account is \$8,279.55 with all of our bills paid and up to date. Our CRC-2013 Bank checking account is \$8,158.14 up from last month as more money has collected for our 2013 CRC sponsorship donations which continue to come in.

If at any time, anyone has any questions regarding our chapters financial status please don't hesitate to contact me.

Peter Bailey
ASHRAE CVC Treasurer
2012 - 2013

Leadership Quote of the Month

"I think leadership comes from integrity - that you do whatever you ask others to do. I think there are non-obvious ways to lead. Just by providing a good example as a parent, a friend, a neighbor makes it possible for other people to see better ways to do things.

Leadership does not need to be a dramatic, fist in the air and trumpets blaring, activity."

— Scott Berkun

MEMBERSHIP PROMOTION

Hello Everyone,

Hope you had a safe, relaxing and enjoyable Holiday season. Welcome back and Happy New Year. This month I just wanted to include the full MP Incentive announcement that was made during last's months meeting. This is the first time the chapter is trying something like this to boost membership so we will see how it works out. I encourage you all to bring some guests along and work with us in trying to make this successful. See everyone at the meeting!

- Josh Chiappone
Membership Promotion Chair

Membership Promotion Points System Incentive

Category	Points Awarded
Being a member	50
Bringing a non member to a meeting	100
Guest of yours signs up as a new member	150

How it works

- All members are awarded points for simply being a member. This will be served as a “thanks” for being part of our chapter.
- By bringing a guest (non-member) to the meeting, or by inviting them by phone, e-mail etc. and they show up, points will be awarded to you. For you to get points, you or your guest must inform the MP Chair (Josh Chiappone) that they are a guest of yours.
- During each meeting, MP Chair will address the Chapter and remind everyone of the system in place. MP Chair will inform anyone who has brought a guest to the meeting to see them and inform them who the guest is and

get any contact information they may have from them. The member will be credited with points towards year end prize. There is no limit on how many guests can be brought to the meetings.

- There are no limits on how many guests can be brought or by how many times they are brought as a guest.
 - For example, John Smith (a member) calls Joanne Smith each month and asks her to attend the upcoming meeting as a guest of his. For 6 straight meetings Joanne shows up and informs the MP Chair that she is a guest of John's. John will be awarded 600 points.
- If a guest of yours decides to sign up as a Member of the Chapter, you will also be credited the point amount, which again, will go towards the year end prize. There is no limit on how many people you can sign up to become a member.
 - For example, John Smith (a member) has invited Joanne Smith to each of the meetings. During the month of the 7th meeting, Joanne realizes how much value she is getting out of the meetings. She decides to sign up. John Smith is awarded 150 points.

Clarifications:

- If you see a random person at a meeting wearing a name tag that shows they are a non member or a guest, points will not be awarded by simply telling us that they are a guest of yours. This is a competitive and fun way to try and boost our membership. Please do not try and take advantage of the system.

RESEARCH PROMOTION

Attached is another small example of what ASHRAE would be without your donations to RP. Most of you are probably familiar with this section of the ASHRAE Fundamentals handbook. Here is what it would look like if the research information was redacted from this page.

2012-2013
Progress!!!

Nonresidential Cooling and Heating Load Calculations 18.31

Fig. 13 Ground Temperature Amplitude

Fig. 14 Below-Grade Parameters

The effect of soil heat capacity means that [REDACTED] which varies with geographic location and surface cover. The minimum ground surface temperature, suitable for heat loss estimates, is therefore [REDACTED] (38)

[REDACTED]

Figure 14 shows depth parameters used in determining U_{avg} . For walls, the region defined [REDACTED] (39)

[REDACTED]

[REDACTED] (41)

[REDACTED] (42)

Table 22 Average U-Factor for Basement Walls with Uniform Insulation

Depth, ft	Uninsulated	R-5	R-10	R-15
0	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
6	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
7	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
8	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
9	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
11	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
12	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
13	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
14	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
15	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
16	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
17	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
18	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
19	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
20	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
21	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
22	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
23	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
24	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
25	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
26	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
27	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
28	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
29	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
30	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
31	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
32	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Soil conductivity = 0.8 Btu/h-ft²-°F; insulation is over entire depth. For other soil conductivities and partial insulation, use Equation (39).

Table 23 Average U-Factor for Basement Floors

z_f (Depth of Floor Below Grade), ft	w_b (Shortest Width of Basement), ft			
	20	24	28	32
0	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
6	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
7	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
8	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
9	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
11	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
12	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
13	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
14	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
15	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
16	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
17	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
18	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
19	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
20	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
21	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
22	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
23	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
24	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
25	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
26	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
27	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
28	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
29	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
30	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
31	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
32	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Soil conductivity is 0.8 Btu/h-ft²-°F; floor is uninsulated. For other soil conductivities and insulation, use Equation (39).

The value of soil thermal conductivity [REDACTED] are shown in Table 22. The average below-grade floor U-factor (where the entire basement floor is uninsulated or has uniform insulation) is given by [REDACTED] (40)

[REDACTED]

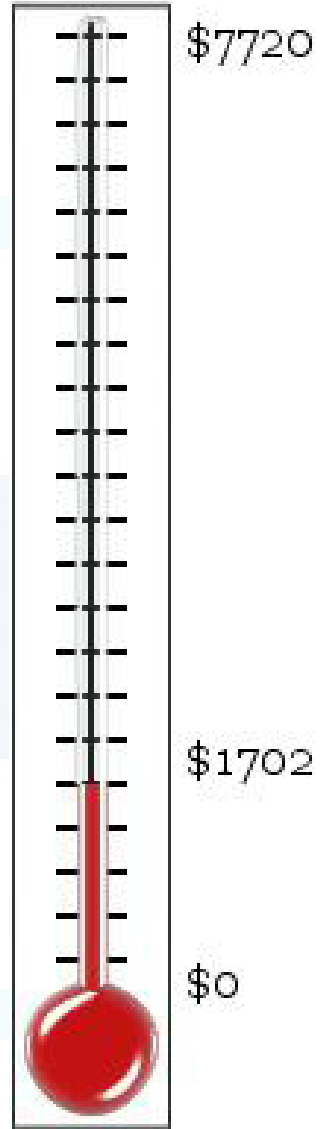
Representative values of $U_{avg,bf}$ for uninsulated basement floors are shown in Table 23.

At-Grade Surfaces. Concrete slab floors may be (1) unheated, relying for warmth on heat delivered above floor level by the heating system, or (2) heated, containing heated pipes or ducts that constitute a radiant slab or portion of it for complete or partial heating of the house.

The simplified approach that treats heat loss as proportional to slab perimeter allows slab heat loss to be estimated for both unheated and heated slab floors:

[REDACTED] (41)

[REDACTED] (42)



Thank you and happy holidays,
Rob Ward
RP Chair

Thanks again to all of those that donated in 2012 and lets have another look forward to another great year for ASHRAE fund raising.

2013 August 15'th thru 17'th

Region One Chapter Regional Conference



On August 15-17, 2013, the Champlain Valley Chapter of ASHRAE will be hosting the Region 1 Chapter Regional Conference (CRC). The Conference will be held at the Hilton Hotel, 60 Battery Street, Burlington Vermont and will include the Presidential Dinner at the Echo Leahy Center located on the Lake Champlain waterfront.

Our Chapter is currently seeking sponsorships from all members and vendors to defray the costs associated with the CRC in an effort to reduce the costs for attendees of this event. Typically 100-150 Region 1 ASHRAE Members along with spouses and families attend the CRC. With help from our sponsors, not only will we be able to reduce the costs for members who typically attend the CRC, but also make the registration costs attractive for other members who normally would not consider attending the CRC. Burlington and our surrounding area has so much to offer and our goal is to provide all attendees of the CRC a most rewarding and enjoyable experience!!

The sponsorship levels are noted below with each identifying the benefits for the sponsors:

Platinum Level Sponsor: \$5,000

- Name and logo on tent sign at each table at CVC ASHRAE meetings the entire year.
- Name and logo on signs at CRC2013
- Name and logo on CRC2013 and ASHRAE CVC websites
- Name on CRC2013 brochures
- Special thanks at CRC2013 events
- Two tickets to Friday dinner
- Two tickets to Saturday Awards lunch
- Two tickets to Golf outing
- Listing in 2012-13 CVC Newsletter for CRC sponsorship

Gold Level Sponsor: \$2,500

- Name and logo on tent sign at each table at CVC ASHRAE meetings the entire year.
- Name and logo on signs at CRC2013
- Name and logo on CRC2013 and ASHRAE CVC websites
- Name on CRC2013 brochures
- Special thanks at CRC2013 events
- Listing in 2012-13 CVC Newsletter for CRC sponsorship

Silver Level Sponsor: \$500

- Name on tent sign at each table at CVC ASHRAE meetings the entire year. (No logo)
- Name on signs at CRC2013 (No logo)
- Name on CRC2013 and ASHRAE CVC websites (No logo)
- Name on CRC2013 brochures
- Listing in 2012-13 CVC newsletter for CRC sponsorship
- Special thanks at awards lunch only

Bronze Sponsor: Min \$150

- List in Newsletter and webpage.

Please note that ASHRAE Region 1 is the largest Region in the Society and covers a geographical area of New England, New Jersey and New York with a total of (15) Chapters. This will provide and benefit our sponsors with the largest potential exposure over any other Region within ASHRAE (the larger the Sponsorship Level, the greater the exposure)!!!

If you're interested in helping us sponsor our events, please contact Bill Atkinson, Dick Wilcox or Tom Zoller and they can help finalize the corporate information and Ad setup as applicable. We look forward to hearing from you and sincerely hope you'll consider a sponsorship for this event. As always your donations are tax deductible, the ASHRAE Champlain Valley Chapter is a registered 501(c) (3) charitable organization.

Tom Zoller
CRC 2013 Chairperson
Tel. No.: 802-864-3816 (ext. 2)
Email: TZoller@trane.com

Bill Atkinson
CRC 2013 Committee Member
Tel. No.: (802) 264-1141
Email: Bill.Atkinson@VTMechanical.com

Dick Wilcox
CRC 2013 Committee Member
Tel. No.: (802) 861-6181
Email: DWilcox@vhv.com.com



Thank you to the following companies for their generous sponsorship of the upcoming Region 1 Chapter Regional Conference – August 15-17, 2013
Burlington, VT

Platinum Level (\$5,000 minimum)



TRANE

URELL

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Gold Level (\$2,500 minimum)



WEIL-McLAIN

Silver Level (\$500 minimum)

Vermont Heating and Ventilating
Multistack
Vermont Mechanical
F.W. Webb
Blake Group
Dubois and King, Inc.

Quality Air Control
Daikin AC
L.J. Early
Yeaton Associates
Hallam-ICS

Bronze Level (\$150 Minimum)

R.F. Peck
ARC Mechanical

Control Technologies
R.J. Murray

2012-2013 Board of Governors



BOG MEETING MINUTES

December 5, 2012 BOG Meeting Minutes

Date: 12/05/2012
 Location: Hampton Inn, Colchester VT
 Time Called to Order: 4:09pm
 Called to Order By: Tom Dacres
 Minutes Recorded By: Rob Ward, Secretary

ATTENDANTS

Tom Dacres	VHV
Nathan Mascolino	VHV
Robert J. Favali	DuBois & King, Inc
Rob Ward	VHV
Joshua Chiappone	Johnson Controls Inc
Tom Zoller	Trane
Dick Wilcox	VHV
Shawn Labelle	Alliance Mechanical
Peter Bailey	Dodge Engineering and Controls

LAST MEETING MINUTES

A motion was made by Nathan M. to approve November 2012 Meeting Minutes. It was seconded by Rob F. and the motion was carried.

OFFICER REPORTS

A.) PRESIDENT: TOM DACRES

- a) Tom stated that he now has all the documents required for the ASHRAE State registration and is ready to mail them to Patricia Adelman in Atlanta GA.
- b) A meeting for the CRC is scheduled for 12/07/12.
- c) Tom passed out a report showing where we stand as far as PAOE points and asked that all officer make sure that their reports are up to date.

d) Newsletters articles are due by 12/14/12.

- e) Tom handed out info on the project that he would like to target for the Presidential Theme and asked for volunteers.
 -Rob Ward volunteered to run load calculations for the project once floor plans became available
 -Steve Poole is the liaison to the owner

f) There was a brief discussion about the nominating committee and who was eligible so be a member of the committee.

B.) PRESIDENT ELECT: NATHAN MASCOLINO – CTTC CHAIR

a) Nathan made a motion to approve monies to cover the expenses of the of January's speaker in an amount not to exceed \$300. The motion was seconded by Rob F. All were in favor and the motion passed.

b) Nathan stated that he January speaker will be a DL.

C.) VICE PRESIDENT: ROB FAVALI

a) Nothing new to report

D.) TREASURER – PETER BAILEY

a) Peter stated that the seed money was no longer missing. The check was mailed to the wrong address. Another check will be sent.

E.) CHAPTER SECRETARY: ROB WARD – RESEARCH PROMOTION CHAIR

a) Rob asked to take a moment during the main meeting to recognize donors from the previous year and speak briefly about Research Promotion.

F.) HISTORY: MIKE COOK

a) Nothing new to report

G.) REFRIGERATION: PETER BAILEY

a) Peter indicated the he would like to hold the Hill Phoenix training class in February or March of 2013. He is working with Hill Phoenix to finalize a date.

b) VHV's new training facility was discussed as one of the potential locations.

H.) ELECTRONICS COMMUNICATION CHAIR: RACHAEL MASCOLINO

a) Pete noted that we still have some blank tabs on the website.

I.) MEMBERSHIP PROMOTION CHAIR: JOSHUA CHIAPPONE

a) Josh presented a revised incentive program to attract new members.

b) He purchased ASHRAE pins for new members with the intention of presenting them at the general meeting

J.) STUDENT ACTIVITIES – SHAWN LABELLE

a) Shawn stated that the students are ready for their winter trip. They are still undecided whether or not they are participating in the design competition this year.

K.) YEA COMMITTEE: SHAWN L., RACHAEL M., JOSH C.

a) Nothing new to report

Tom Dacres stated that he has already received scholarship applicants. EOY and YEOY is coming up and Tom is looking for applicants to submit. There was a general discussion that followed about who had previously been submitted and who would be eligible.

OLD BUSINESS:

None

NEW BUSINESS:

None

MEETING ADJOURNED

A motion was made by Tom Dacres to adjourn the meeting. It was seconded by Rob Favalli and the motion was carried. The meeting adjourned @ 5:13 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

December 5, 2012 General Meeting Minutes

Date: 12/05/2012

Location: Hampton Inn, Colchester VT

Minutes Recorded By: Rob Ward, Secretary

ATTENDANTS

Tom Dacres	Vermont Heating & Ventilating
Nathan Mascolino	Vermont Heating & Ventilating
Robert J. Favali	DuBois & King, Inc
Rob Ward	Vermont Heating & Ventilating
Shawn Labelle	Alliance Mechanical
Joshua Chiappone	Johnson Controls Inc
Dick Wilcox	Vermont Heating & Ventilating
Tom Zoller	Trane
Peter Bailey	Dodge Engineering
Jay Pilliod	Efficiency Vermont
Ray Hickey	Advanced Comfort Systems
Harris Unger	Advanced Comfort Systems
Martha Soule Holden	Vermont Heating & Ventilating
Scott Harrington	Vermont Gas
William Moore	TCorp
Jason Hudspath	Thermal Environmental Sales
Joseph Kazukenus	Thermal Environmental Sales

Cody Lezak	VEIC
Randy Mead	Control Technologies
Steve Omalley	VEIC
Mike Spasyk	Dubois & King
Peter Tousley	TCorp, Inc.
MJ Poynter	Efficiency Vermont
Howard Merson	Efficiency Vermont
Matt Dooley	VEIC
Thomas Anderson	Cx Associates
Natascha DeGiule	The Black Group
Eveline Killian	Cx Associates
Brent Weigel	Cx Associates
Edward Pais	Pais Architects
Justin Webb	Control Technologies
Ray Keller	Vt Gas
Paul Duane	Efficiency Vermont
Bob Gatchell	Johnson Controls
Chris Wilkins	Hallam-ICS
Corey Griffiths	Vermont Mechanical Inc
Tom Whitney	Vermont Mechanical Inc
Phil Bresnahan	Vermont Mechanical Inc
Charles Veronneau	Control Technologies
James Ashley	Green Mountain Geothermal
Steve Dumas	Dubois and King
Tim Guiterman	Navigant
Mike Bronder	RF Peck
Justin Dascoli	Phoenix Valve
Keith Downes	Navigant
Divya Iyer	Navigant
John Lincoln	Burlington Electric Dept.
Ken Couture	Green Mountain Power
Clark Sweeney	Sweeney Refrigeration & HVAC Service
Steve Poole	Vermont Heating & Ventilating
J.C. McCann	Burlington Electric Dept.
Edward Pearson	Pearson and Associates
Alan Gould	Pearson and Associates

The meeting was started with a social hour prior for sitting down to dinner. Rob Ward announce the list of

donor who had contributed to Research Promotion the previous year and handed out certificates to the donor that were in attendance.

MAIN PRESENTATION

For the general meeting Ken Couture from Green Mountain Power did a presentation on smart grid technology and green energy.

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





VERMONT TECHNICAL COLLEGE
Part-time faculty – Sustainable Design and Technology
SPRING 2013 SEMESTER

Vermont Tech's Sustainable Design and Technology program is seeking candidates for a part-time faculty position to teach a three-credit course for spring 2013 semester, SDT-4110 Building Controls and Commissioning. This senior level course is also open to students in the college's Architectural Engineering Technology program. The course is scheduled as a weekly four-hour meeting and students are located in Randolph Center. However, the course could be offered over Vermont Interactive Technology or via Adobe Connect from Vermont Tech's Williston campus. We have some flexibility in terms of what day the course is offered.

Master's degree preferred plus experience in these subject areas as well as experience teaching adults.

SDT 4110 Building Controls & Commissioning (3) – fall

This course in the Green Building technical core looks at two important areas for sustainable commercial buildings: integrated control systems and the hands-on "fine tuning" that is essential for a building to operate efficiently. The first part of the course will concentrate on an overview of digital control systems (electrical circuits and basic system design). The second part of the course focuses on the detailed knowledge needed for the emerging field of building commissioning, now a requirement of the LEED certification process; 2 hours of lecture, 2 hours of laboratory per week. Prerequisite: ARC 3010 and SDT 3110, concurrent enrollment in ARC 4030.

To apply please submit a completed Vermont Tech employment application, cover letter, and resume to:

Brandi Peloquin at: BPeloquin@vtc.vsc.edu

Human Resources
Vermont Technical College
PO Box 500
Randolph Center, VT 05061

Employment application is available on the Vermont Tech website: www.vtc.edu/employment.

Vermont Tech strongly encourages applications from members of ethnic minority groups and other under-represented backgrounds. Vermont Tech is an Equal Opportunity Employer and a member of the Vermont State Colleges system. In compliance with ADA requirements, we will make reasonable accommodations for the known disability of an otherwise qualified applicant.

CHILLER EFFICIENCY IMPROVEMENTS PROPOSED FOR STANDARD 90.1

For Release:
Dec. 12, 2012

Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

Chiller Efficiency Improvements Proposed for Standard 90.1

ATLANTA - Chiller efficiencies for air and water cooled chillers would be boosted to more than 20 percent under a proposed addendum to the ASHRAE/IES energy standard.

Proposed addendum ch to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, changes the requirements for air and water cooled chillers as defined in section 6.4.2.1 and the efficiency requirements listed in table 6.8.1C. This change is a continuation of the efficiency improvements that were implemented in 2010 by further improving the efficiency requirements, according to Dick Lord, a member of the committee who developed the proposal through a working team of the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) chiller section.

Addendum ch is open for public review from Nov. 30, 2012-Jan. 14, 2013. For more information, visit www.ashrae.org/publicreviews.

In 2010, a Path B was added to the standard for part load intensive water cooled chillers. Proposed

addendum ch would expand Path B by adding requirements to include air cooled chillers. Also as part of this change, efforts were made to bring the efficiency requirements for water cooled positive displacement and centrifugal chillers together while considering the available technology, and to chillers to be applied at other application conditions where one technology may better suited than the other. If approved, the new efficiency requirements would go into effect on Jan. 1, 2015.

The proposed efficiency requirements in addendum ch increase annual energy savings to 23.1 percent vs. Standard 90.1-2004 and 8.3 percent vs. Standard 90.1-2010. In 2010, the overall weighted average savings resulted in a 16.2 percent improvement in chiller annualized energy use vs. Standard 90.1-2004.

Lord noted the average payback was calculated at 6.3 years, given some units that exceed the scalar limits. Chiller manufacturers are aware of this and know that redesign and cost reduction will be required, but do support the proposal, he said. Lord also noted that we are reaching maximum technological limits at a component level and that in the future the industry will have to look at the full HVAC system for further improvements. AHRI is in the process of forming a new working group to address systems approaches for efficiency improvements and will work closely with Standard 90.1.

In addition, improvements also were made to the requirements to clarify their use. AHRI has recently updated the AHRI 550/590 rating standard that is used for the rating of chillers and its certification program. As part of this effort, AHRI developed a hard metric standard with slightly different rating conditions than the inch pound (I-P) ratings and have released it as AHRI 551/591. For the International System of Units (SI) rating, the change was reflected in the ratings as well as revising the reference to the AHRI rating standard to include AHRI 551/591.

The Standard 90.1 committee also opted to exclude chillers when the leaving condensing temperatures are greater than 115F from the equipment efficiency requirements of Table 6.8.1C. This proposed clarification stems from the fact that high-lift, heat reclaim chiller applications often use a different compressor and sometimes a different refrigerant. The intention of using heat reclaim chillers is to increase system efficiency, but the effect on overall system efficiency cannot be assessed at standard cooling design conditions, Lord said. AHRI is developing rating requirements, test procedures and certification for heat reclaim chillers as well as heat pump chillers.

Also open for public comment from Nov. 30-Jan. 14 is addendum aq that makes minor changes to improve clarity and to address issues identified in sections 6.5.1.3.a and 6.5.3.2.1.

In addition, 15 proposed addenda also are open for public review from Nov. 30 until Dec. 30. They are:

- Addendum bs reduces occupancy threshold for demand controlled ventilation from greater than 40 people per 1000 ft² to equal to or greater than 25 people per 1000 ft² with exemptions for certain occupancies.
- Addendum ca requires that vestibule heating be locked out when outside air is above 45F, the same temperature that lockout of freeze protection or ice melting systems is required in section 6.4.3.8.
- Addendum cb to removes the 10,000 cfm threshold for optimum start and adds a threshold for systems controlled by DDC. The addendum also expands the requirement beyond air-based systems so that convectors and radiant systems would be included.
- Addendum cc adds minimum efficiencies for both axial and centrifugal fan evaporative condensers with R-507A as the test fluid to Table 6.8.1G.
- Addendum cd clarifies what to do with piping system accessories that are not in series with the piping circuit that do not have the same heat losses/gains and pressure drop
- Addendum ce establishes package single zone systems as the baseline HVAC system type for all retail occupancies of two stories and less.
- Addendum cf enables the establishment of a window-to-wall ration for retail strip mall buildings.
- Addendum ck requires the use of dual maximum control for variable air volume zone control when the building has DDC controls.
- Addendum cl updates the IEER values for air-cooled and water-cooled air conditioners and heat pumps above 65,000 Btu/h. Depending on the cooling capacity and product classes, the new IEERs are between 7 and 13 percent better than the values they are replacing. The new IEERs will become effective on Jan. 1, 2016. Note the IEER is a new metric that was developed by AHRI and first implemented in the 2010 standard and is a better representation of the annualized refrigeration system energy use of a typical commercial packaged air conditioner.
- Addendum cn allows laboratory designs that incorporate strategies to reduce peak airflows and minimum unoccupied airflows to document energy savings associated with reduced outside air volumes.
- Addendum co modifies the Lighting Power Densities in Table 9.5.1 to match the recommended light levels in the 10th Edition of the IES Lighting Handbook.
- Addendum cp corrects a value in table 5-5 for steel joist floors.
- Addendum cr modifies Table 9.6.1 to correct the required light levels for hospital corridors, assisted living dining spaces and retail sales

spaces.

- Addendum an allows the option to use energy rates either from actual local rates or EIA state data, where approved by the building official when using Appendix C.
- Addendum ar corrects the definitions for walk-in coolers and walk-in freezers.

IS MOISTURE AN UNWANTED 'OCCUPANT' IN YOUR BUILDING?

For Release:
Dec. 18, 2012

Contact: Jodi Scott
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jscott@ashrae.org

Is Moisture an Unwanted 'Occupant' In your Building? ASHRAE Seminar Shares how to Remove It

ATLANTA—No designer wants to see the unwelcome guests of mold and mildew show up in their building. Guidance on how to prevent moisture that causes their appearance is offered in several sessions at ASHRAE's 2013 Winter Conference in Dallas.

“Sooner or later, HVAC professionals throughout Texas and the Gulf Coast come up against the problem of preventing or getting rid of mold,” Lew Harriman, a speaker at the Conference and author of ASHRAE's “ASHRAE Guide for Buildings in Hot and Humid Climates,” said. “In June 2012, the ASHRAE Board of Directors approved a totally revised and updated Position Document on Indoor Mold and Dampness in Buildings. The Dallas Conference includes a comprehensive briefing on what ASHRAE experts

have found to be the HVAC-related causes of mold in buildings, and what owners, contractors and designers can do to prevent the problem.”

The 2013 Winter Conference takes place Jan. 26-30 at the Sheraton Dallas. To register and for complete Conference information, visit www.ashrae.org/dallas. The International Air-Conditioning, Heating, Refrigerating Expo, held in conjunction with the Winter Conference, will run Jan. 28-30. The Expo, www.ahrexpo.com, is held at the Dallas Convention Center.

The technical program features more than 200 sessions addressing energy conservation; facility management: operations, technology and energy improvements; large building design; standards, guidelines and codes; HVAC&R systems and equipment; HVAC&R fundamentals and applications; and refrigeration. The full Technical Program offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits and runs Jan. 27-30.

A seminar, Diagnosing and Fixing Building Moisture Problems – Case Histories from Hot and Humid Climates, takes place 8-9:30 .m. Sunday, Jan. 27.

Moisture and humidity problems are often a complex mixture of decisions made by different professionals at different times about HVAC systems, architecture and building operations. Untangling the causes of problems and planning solutions requires understanding of the typical interactions between the building and its HVAC systems plus an appreciation of the practical aspects of operating buildings with limited budgets.

Case histories presented in this seminar can help building owners and facility managers avoid classic moisture problems and solve them when they occur.

Speakers and presentations are:

- Diagnosing and Fixing a Major Mold Growth Problem in a Health Clinic, Lew Harriman, Mason Grant, Portsmouth, N.H.
- The Unintended Consequences of the New International Green Construction Code on HVAC and Mold Problems in Humid Climates, George Dubose, Liberty Building Forensics Group, Zellwood, Fla.
- Sources and Solutions of Classic Moisture Problems—Lessons Learned in Hot and Humid Climates, Raoul A. Webb, P.E., ENVIRON International Corp., Tampa, Fla.

A seminar, “Moisture Control in Commissioning of New and Existing Buildings,” takes place 11 a.m.-12:30 p.m., Sunday, Jan. 27. Moisture control in the commissioning process is based on project requirements for moisture problem avoidance, building assessment, field testing, and building science. This seminar focuses on the interaction of building systems that affect moisture in buildings and demonstrates important lessons learned by use of case studies.

- Providing Moisture Control Solutions in Building Commissioning, Donald Snell and George Dubose, Liberty Building Forensics Group, Zellwood, Fla.
- The Art and Science of Building Enclosure Commissioning, Fiona Aldous, Wiss, Janney, Elstner Associates, Inc., Irving, Texas.

A seminar, ASHRAE Position on Limiting Indoor Mold and Dampness in Buildings, Unvented Combustion Devices and Indoor Air Quality: Review of Three Recently Published ASHRAE Position Documents, takes place from 11 a.m.-12:30 p.m., Wednesday, Jan. 30.

The seminar reviews three recently published

Position Documents from ASHRAE, including “Limiting Indoor Mold and Dampness in Buildings.” The paper describes 64 specific decisions that have been observed to either minimize or increase the risks associated with indoor moisture accumulation.

- The Revised ASHRAE Position Document on Limiting Indoor Mold and Dampness in Buildings, Lew Harriman, Mason Grant, Portsmouth, N.H.
- ASHRAE Position Document on Unvented Combustion Devices, Paul W. Francisco, University of Illinois, Champaign, Ill.
- ASHRAE Position Document on Indoor Air Quality, Chandra Sekhar, Singapore.

STANDARD FOR HIGH PERFORMANCE GREEN HEALTH CARE FACILITIES

For Release:
Dec. 10, 2012

Contact: Jodi Scott
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678-539-1140
jscott@ashrae.org

Standard for High Performance Green Health Care Facilities Open for Public Review

ATLANTA - A prescription for the design, construction and operation of high performance health care facilities would be provided through a proposed standard from ASHRAE and the American Society for Healthcare Engineering (ASHE).

ASHRAE/ASHE Standard 189.3P, Standard for the Design, Construction and Operation of Sustainable

High-Performance Health Care Facilities is open for public comment from Dec. 7, 2012-Jan. 21, 2013. Visit www.ashrae.org/publicreviews for more information.

“Healthcare facilities are often the largest and most energy intensive buildings in a community,” Standard 189.3 committee chair Michael Sheerin said. “In today’s competitive and regulated market, these facilities are challenged to provide capital for increasingly complex new buildings that meet sustainability objectives as they experience decreasing finances for life-sustaining services. In addition, health care facilities are home to services that require energy use for patient safety.”

Proposed Standard 189.3 would help facilities in meeting those multiple needs by providing the procedures, methods and documentation requirements for the design, construction and operation of high performance sustainable health care buildings. It would apply to patient care areas and related support areas within health care facilities, including hospitals, nursing homes and licensed outpatient facilities.

The standard covers key topical areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building’s impact on the atmosphere, materials and resources. Additionally the standard has a special section to address the emissions, effluents and pollution that is commonly discharged from these facilities.

Proposed Standard 189.3 provides guidance to achieve improved energy efficiency for the selection of materials and furnishings and for utilizing green facility operating processes.

The standard builds upon the guidance for creating high performance buildings addressed in a parallel standard, ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, while accommodating the unique factors that impact health care facilities.

Specific ventilation requirements for health care facilities are addressed in ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

SAVE THE DATE: BBD 2013

Better Buildings by Design: February 6-7, 2013 at the Sheraton Conference Center in Burlington, VT. A number of workshops will feature HVAC, including a session on rooftop unit optimization and the RTU challenge by the New Buildings Institute. NBI will also present at the ASHRAE meeting on February 6.

BBD 2013 is currently seeking exhibitors and sponsors. Don’t miss the chance to reach more than 1000 building and design professionals interested in the latest innovations. For more information on sponsoring the event or reserving exhibit space, visit www.encyvermont.com/conference

Registration to attend BBD begins in December 2012.

THE PAST PRESIDENT'S MEMORIAL SCHOLARSHIP



The Past President's Memorial Scholarship was founded in 1991. At that time, five companies, GWR Engineering, Hallam Engineering, Avengco Engineering, Hertzberg Engineering, and Mechanical Consulting Services, contributed to create the scholarship given in the memory of Tom Wolfstich.

Tom Wolfstich had his roots in Albany, NY following in his father's footsteps as a union plumber and pipe fitter. He came to Vermont in 1979 to run the plumbing division at New England Air systems Inc, a company Bobby Miller had created a few years earlier. Tom was known for his skills in lay out and installing piping systems for large projects, especially renovation work. He was also known for his contagious sense of humor and playing pranks on colleagues. In 1984, Tom, along with Steve Bartlett and John Lawrence, bought New England Air Systems Inc from Bobby Miller. About that same time, Tom started getting involved in ASHRAE and started to advance through the Board of Governors chairs. In 1988-1989, Tom was the President of the Champlain Valley Chapter of ASHRAE. He was also very active in the local chapter of the Plumbing, Heating and Cooling contractors association, PHCC. In March 1991, Tom died unexpectedly of complications from lung cancer that was connected to asbestos exposure through the years. His wife Janis and three children, two of who still live in Vermont, survive him.

The award has changed somewhat over the years. There are many companies that contribute \$100.00 each to create the scholarship fund. The ASHRAE Champlain Valley Chapter has also lost some of our other past president's and decided to rename the scholarship from the Thomas Wolfstich Memorial Scholarship to the Past President's Memorial Scholarship.

If you would like to contribute to the scholarship fund, please address your correspondence to the address noted below. The scholarship committee decides whom to award the scholarship to each year. The requirements include enrollment in a four-year college with completion of at least three semesters or enrollment in a two-year college with completion of at least two semesters, Enrollment in the college's mechanical engineering or architectural engineering program, a minimum overall 3.0 grade point average, the student must demonstrate a financial need, and shows interest in pursuing a career in an ASHRAE oriented field. At the discretion of the scholarship committee, there can be one award or multiple awards given each year. The scholarship is paid directly to the recipients' school in care of the winner.

Student applications are now being accepted for the Thomas Wolfstich scholarship award. A copy of the application is posted on our website www.ashraevt.org.

Champlain Valley Chapter ASHRAE

American Society of Heating, Refrigeration & Air Conditioning Engineers

The Past President's Memorial Scholarship Questionnaire

Mail or Email Completed form by **February 28, 2013**

To: Alliance Mechanical
Attn: ASHRAE CVC Scholarship – Shawn LaBelle
PO Box 666
Essex Jct., VT 05453
ShawnL@amivt.com

Name: _____
Address: _____
City, State, and Zip: _____
Phone: _____

Attending School: _____
Address: _____

Year: _____ Class (Circle) F So Jr Sr Current GPA: _____

Describe Major: _____

Are you an ASHRAE Student Member? Yes No

Please Submit/Enclose a Written Endorsement from your Mechanical Engineering Professor, Advisor, or Dean.

Is the Endorsement Attached? Yes No

Please answer the following questions on the backside of this form. Attach additional sheets if necessary. (Answers typed on separate sheets is preferred)

1. What do you know about ASHRAE?
2. Describe what you think you can contribute to ASHRAE and what ASHRAE might contribute to your career.
3. Describe work experience related to an ASHRAE related field that you have had.
4. Describe which college area of study that has been most interest to date and why.
5. Explain any special projects or activities that you participated in.
6. Explain which ASHRAE oriented field you wish to pursue.

2012 CRC AWARDS

Here are the (7) awards the Champlain Valley Chapter received at the 2012 CRC in Boston on August 25, 2012 during the awards luncheon.

- ▶ Champlain Valley Research Promotion – Rob Ward -Full Circle, Goal, High Five, Challenge
- ▶ Champlain Valley PAOE Awards – Honor Roll, Star, Special Citation – Michael R. Cook
President
- ▶ 2011-2012 ASHRAE Region 1 CTTC -Award of Excellence – Tom Dacres
- ▶ 2011-2012 ASHRAE Region 1 Black Ink Award “The Champ” – Cara Gorman
- ▶ 2011-2012 ASHRAE Region 1 Websitation of Excellence – Cara Gorman and Rachael Mascolino
- ▶ 2011-2012 Certificate – Participation in Student Design Competition, HVAC Design – Shawn LaBelle and VTC Student Chapter
- ▶ 2010-2011 ASHRAE Region 1 CTTC PAOE Sustainability Award – Michael R. Cook

2012-2013 PRESIDENTIAL NEWSLETTER

DATE: April 12, 2012

TO: Chapter Presidents
ASHRAE Membership Promotion Committee
ASHRAE Student Activities Committee
ASHRAE Research Promotion Committee
ASHRAE Chapter Technology Transfer Committee
Young Engineers in ASHRAE Committee
Regional Historians
Assistant Regional Chairs
Board of Directors

FROM: Thomas E. Watson, PE

SUBJECT: PRESIDENTIAL AWARD OF EXCELLENCE (PAOE)

ASHRAE chapters are the backbone of this Society and play a central role in helping the Society achieve its goals. Through our collective efforts, ASHRAE chapters are a vital force in the built environment and a resource everywhere in the world.

My Presidential theme, “Broadening ASHRAE’s Horizons” emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our communities worldwide.

This marks the seventh consecutive year that the Presidential theme has focused on sustainability. This focus

should be so ingrained in our lives that our mission “to serve humanity and promote a sustainable world” inspires and guides our daily decisions.

Several new activities have been added to support the presidential theme and they focus on community involvement.

50 points for grassroots advocacy training for chapter officers and future leaders (minimum 1 hour of training) (100 points maximum)

50 points for establishing and maintaining a chapter grassroots advocacy committee with at least two members to promote ASHRAE with state, provincial, and local governments

50 points for establishing a Chapter Sustainability Committee that meets periodically that organizes at least two HVAC&R related sustainability activities per year

50 points for chapter publicity that includes issuing at least six (6) press releases or arranging one (1) or more TV appearances promoting the work of ASHRAE (150 points maximum)

500 points for chapter sponsored community sustainability project or event in conjunction with a non-profit organization (Note: ASHRAE provided Community Sustainability Project Tool Kit is available to assist.)

100 points for chapter sponsored community sustainability project publicity (outside of normal Chapter advertisements) that includes Print, Audio or Electronic media at a local, state, provincial, national or industry level promoting the work of ASHRAE and/or the local chapter (500 points maximum)

25 points for chapter officers or MP Chair promoting ASHRAE membership to local companies (e.g. reception, one/one meeting, company presentation) in order to increase their support in ASHRAE (150 points maximum)

25 points for each article (minimum 250 words) on a grassroots advocacy-related (i.e., state provincial, or local legislative or regulatory issue) published in a chapter newsletter or posted on a chapter website with copy sent to RVC (maximum of two articles per month) (300 points maximum)

There are six categories included in this year’s PAOE: Chapter Operations, Chapter Technology Transfer, Historical, Membership Promotion, Research Promotion, and Student Activities. To achieve PAOE, the chapter must earn the minimum points in four of the following five categories: Chapter Operations, Chapter Technology Transfer, Membership Promotion, Research Promotion, and Student Activities. Please refer to the criteria specified in each of the categories for calculating the PAOE points. For additional information or clarification, check the PAOE Frequently Asked Questions (FAQ) section on the ASHRAE website. Please note that appropriate documentation should be kept by the Chapter to support PAOE point input, and that “chair” is defined as the individual listed in the Chapter Information Questionnaire (CIQ) on file with Society.

I appreciate your dedication, enthusiasm and hard work in improving our Society and providing value to our membership. I look forward to working with you during this Society year.

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	2012-13
Membership Promotion	800	0
Student Activities	500	0
Technology Transfer	850	250
Research & Promotion	1050	560
History	300	100
Chapter Operations	600	405
Chapter TOTAL	4100	1315

2012-2013 BOARD OF GOVERNORS

Joshua Chiappone T: (518) 817-8669 joshua.j.chiappone@jci.com	Shawn LaBelle T: (802)862-5900 x146 shawn.labelle@vtmechanical.com
Rachael Mascolino T: (802) 540-7846 rmascolino@veic.org	Mike Cook T: (802) 291-0911 mcook@arcmech.com
Dick Wilcox T: (802) 655-8805 dwilcox@vhv.com	

2012-2013 CHAPTER OFFICERS

President	Thomas Dacres, Jr., LEED AP BD+C (802) 655-8805 x 152 tomd@vhv.com
President- Elect	Nathan Mascolino, PE, LEED AP (802) 861-6148 nathanm@vhv.com
Vice President	Robert J. Favali, LEED Green Associate (802) 764-2704 rfavali@dubois-king.com
Secretary	Robert Ward III, LEED AP (802) 861-6194 robw@vhv.com
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COMMITTEE CHAIRPERSONS

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Newsletter Editor	Cara Gorman cara@ashraevt.org
2013 CRC	Tom Zoller (802) 864-3816 x2 TZoller@trane.com
2013 CRC Vice Chair	Steve Poole (802)861-6133 spoole@vhv.com

Subscription to the newsletter and membership questions should be directed to Joshua Chiappone (518) 817-8669 or joshua.j.chiappone@jci.com

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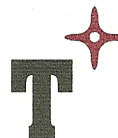
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