



Champlain Valley Chapter

The Champ Monthly Newsletter

of the Champlain Valley Chapter of ASHRAE

PRESIDENT'S MESSAGE



Hello and happy spring!

If you missed the March meeting it was a barnburner! The debate over the proposed model law from The National Council of Examiners for Engineering and Surveying (NCEES) requiring an additional 30 credit hours – roughly the equivalent of a master’s degree – for obtaining license as a Professional Engineer (PE), beginning in 2015 is a hot topic.

If the state of Vermont were to adopt this rule it would mean that a person would not be eligible for his or her PE license until all of the current requirements are met... AND that person has completed 30 approved credit hours (equivalent of a master’s degree). The adoption of this rule by the state of Vermont would add to the challenge of becoming a professional Engineer.

This year the Vermont State board of professional engineers decided not to adopt this new rule, but there is considerable traction in Montpelier to move this rule forward in 2013. Our March meeting served to provide information about this proposal and how it relates to our field.

The first speaker Shawn P. Kelley, PhD., P.E. presented in favor of the NCEES Rule (As supported by VT State Representative Robert Krebs, from South Hero). Shawn is currently

ASHRAE CVC UPCOMING EVENTS

April 2013 Dinner Meeting

When: Wednesday, April 3rd @ 6:00 PM
Where: Vermont Technical College
Randolph Center, VT 05061
“Red school House”

Schedule:

6:00pm-7:00pm

VTC ASHRAE CVC Student Chapter Presentation (tour of the Large Wood Pellet Boiler and hopper to follow)

7:00pm-7:30pm

Dinner - OLD FASHIONED BBQ

7:30pm-8:30pm

Student ASHRAE Design Competition submission(s)

Special Guest - YEA Regional Coordinator (YRC), Region 1 - Cara Martin

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a Region 1 Governor and the Past-President of the Vermont Section of the American Society of Civil Engineers (ASCE). Shawn presented a very convincing argument and our members were very engaged and it sparked many questions and rebuttals.

The second speaker, Jeffrey R. Mountain, PhD., P.E., an associate Professor at Norwich University and current chair of the ASME Design Education Committee, gave a presentation in opposition to the proposed NCEES rule.

We had yet another special guest at our March meeting, Richard Vehlow - Region 1 RVC MP. Richard is also the incoming RVC Grassroots Government Activities Committee. Here is what he had to say about the meeting:

“It was certainly one of the most engaging meetings I have ever attended in my ASHRAE tenure. Not normally one to ask many questions in a presentation, I probably had a half-dozen with the MOE presenter and a couple with the second speaker. I think that both speakers presented their sides well, but the non-Masters presentation was the clear winner both in terms of logic and audience feedback. It was an excellent meeting. Thanks for the opportunity to attend and participate.”

-Rich Vehlow

The one common theme of the meeting that everyone agreed on is that VT needs to adapt a continuing education policy before MOE.

In my opinion the best question of the night was asked by Steve Poole.

“In VT we have problems retaining young professionals after they graduate, they leave the state for higher paying jobs and

or greater opportunities. If we pioneer this and become the first state to adopt MOE we will lose more BSME graduates to adjacent states who do not require the added cost of BS+30. How do we prevent this?”

There are many websites that are actively supporting or opposing this change to the licensing laws the two most prominent are www.raisebarforengineering.org and www.licensingthatworks.org

This issue of MOE (Master’s or equivalent) is vital to our industry and the workforce serving it and it’s not going away. Please keep your ears to the ground and look for more information as to when this MOE issue will rear its ugly head again.

IN OTHER NEWS...

The Nominating Committee for the ASHRAE CVC 2013/14 year has submitted their list of nominees. We have two candidates for the Secretary Position so we will have an election this year. Look for an official CVC email for your ballot.

We are pleased to announce that Kristen Gulrajani is this year’s winner of the \$2,500.00 ASHRAE Champlain Valley Chapter Past President’s Memorial Scholarship. It was a very close selection between Kristen and runner up Rebekka Dimick. Both are very worthy candidates with Kristen just edging ahead on the final board vote.

Kristen Gulrajani and Rebekka Dimick were

chosen (by VTC staff) to split the VTC CVC Scholarship of \$500.00. Each will receive a check from CVC for \$250.00. Way to go girls!

A big THANK YOU goes out to all our advertising sponsors. Your support of ASHRAE CVC by way of advertising in this newsletter; 100% funds these scholarships.

Save the date - April 18th - Assessing BuildingEnergy Performance: From Principles to Practice - FREE ASHRAE webcast hosted by CVC at Vermont Heating & Ventilating Co. in Winooski, VT. 12:00 PM to 4:00 PM - **FREE lunch** will be provided by Efficiency Vermont!

- Tom Dacres

TREASURE'S REPORT

As of March 20th, 2013 our TD Bank account is \$7,538.07 and all of our bills are paid up to date with our ASHRAE CVC account reconciled.

Our CRC-2013 Bank checking account has climbed to \$27,119.84 up again from last month as money has still been coming in thanks to our 2013 CRC Sponsors.

The CRC-2013 checking account has also been reconciled.

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



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Dan O'Connor

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2012-2013 ASHRAE CVC MEETING CALENDAR

APR 2013
Vol. 27 No. 07

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	Aug 15-17
<p>4:00 pm: BOG Meeting @ Hampton Inn</p> <p>5:00 pm: Social Hour Cash Bar</p> <p>5:45 pm: Buffet Dinner Served</p> <p>6:30 pm: Main Presentation- Dan Harris P.E. from the New Buildings</p>	<p>4:00 pm: BOG Meeting @ Hampton Inn</p> <p>5:00 pm, Social Hour and cocktails</p> <p>6:00 pm: VT State Rep. Robert Krebs, & Brad Aldrich, PE will present in favor of the NCEES Rule</p> <p>7:00 pm: Buffet Dinner Served</p> <p>8:00 pm: Jeffrey R. Mountain, PhD will give a presentation in opposition to the proposed NCEES rule</p>	<p>BOG Meeting - TBD</p> <p>Vermont Technical College - Red School House</p> <p>6:00 pm: Student Chapter Presentation on Winter Meeting Trip to Dallas, TX</p> <p>Large pellet boiler and hopper Tour @ Red School House VTC</p> <p>Student ASHRAE Design Competition submission(s) Buffet Dinner Served @ Red School House VTC</p>	<p>5:30 pm: Tour + BBQ + MP night</p> <p>Meeting Theme: Tour of the Switchback Brewery new bottling line.</p>	<p>ASHRAE Region 1 Chapter Regional Conference (CRC)</p> <p>Hilton Hotel</p> <p>Burlington, VT</p>

STUDENT ACTIVITIES

VTC Chapter

Committee Chair: Shawn LaBelle

Student Chapter Advisor: Chris Reilly

Student Chapter President: Kristen Gulrajani

I want to take the time to congratulate Kristen Gulrajani and Rebekka Dimick who are our 2013 VTC ASHRAE Award recipients (\$250/ea). I also want to congratulate Kristen Gulrajani who is our 2013 Past Presidents Memorial Scholarship recipient (\$2,5000). Kristen and Rebekka are currently the President and Co-President of the Student ASHRAE Chapter at VTC and will be graduating this spring. They will be receiving their awards during Vermont Technical College Honors Convocation held on Thursday April 11th at 6pm in the Judd Gymnasium. These VTC Awards are given to student that show excellence in HVAC system design and is active in ASHRAE at the student and local chapter levels. Again congratulations Kristen and Rebekka!

The scholarship and award money is funded by all the proceeds from our newsletter advertisement. So a big thanks goes out to all who paid for an advertisement in the newsletter this year.

Also a reminder that we will be holding April's meeting at Vermont Technical College in the Judd Gymnasium. The meeting will be Wednesday April 3rd starting at 6pm. Also Cara Martin the YEA Regional Coordinator, Region 1 will be attending the meeting.

- **Student Chapter Presentation on Winter Meeting Trip to Dallas, TX**
- **Large pellet boiler and hopper Tour @ Red School House VTC**
- **Student ASHRAE Design Competition submission(s) .**
- **Buffet served at Red School House VTC**

For more details visit the Champlain Valley Chapter's website at <http://www.ashraevt.org/>.

Thanks!
Shawn LaBelle

TECHNOLOGY TRANSFER

Hello and happy spring everyone! The clocks have changed, the afternoons are bright, and there is sugar house steam in the hills. It's a great time to live in our beautiful part of the world.

I would like to thank everyone who was able to attend the March 11th meeting. Our little Vermont chapter is attracting some national attention from ASHRAE. The masters or equivalent debate is a hot topic with ASHRAE and we (Vermont CVC) find ourselves right in the middle of it. I don't think that March 2013 is the last time we are going to hear about this issue. I am sorry for all of those who were looking forward to the Green Mountain Coffee facility tour. Our programs committee did all that we could to make it happen and in the end it just didn't work.

As we look forward our ASHRAE calendar is looking exciting. Once again this year for April we will be traveling to VTC to support our student chapter. I encourage anyone who can to attend. We will be meeting in the "Red School House" on campus and while we are there we will be touring the heating system. The school house is heating by a pellet boiler. The students will present on their recent trip to the ASHRAE winter meeting. They will also be presenting on the ASHRAE student design project. If you are able to make the trip please come out and support our students.

In May we will be returning to the Switchback brewery to tour (and sample) their new bottling line. This meeting will conclude the 2012/13 ASHRAE year and we will enjoy the customary end of season BBQ. Fun will be had by all.

Thing Spring!
- Nathan Mascolino

RESEARCH PROMOTION

As a lot of you may already know our summer event last year “The Expo On Wheels” was a huge success and I really look forward to the next one. In an effort to keep it new and exciting we decided to make it a bi-annual event. With the hosting of the CRC we will not be having a big fund raiser this summer. This will make for a huge challenge to try meet our year end goal shown on the thermometer so I ask that if you know of any potential donors that have not contributed in the past or have not in recent years please send me a message or give me a call so

that I might touch base with them. Any amount is acceptable and very much appreciated. I can be contacted at 802-861-6194 8am-5pm M-F. If you don't get me please feel free to leave a message and I promise to get right back to you. You can also reach me by email at robw@vhv.com.

With that I leave you another example of what one of the resources we use on a daily basis would look like if it wasn't for the monies that we take in from donations.

Thank you,
Rob Ward
RP Chair

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Nonresidential Cooling and Heating Load Calculations 18.35

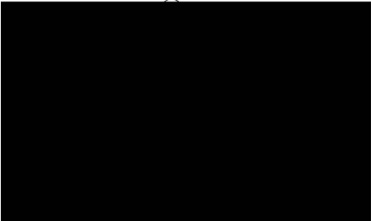


Fig. 15 Schematic Diagram of Typical Return Air Plenum

15, represent the heat balance of a return air plenum design for a typical interior room in a multifloor building:

(48) _____
 (49) _____
 (50) _____
 (51) _____
 (52) _____

Ceiling Plenums with Ducted Returns

Compared to those in unducted plenum returns, temperatures in ceiling plenums that have well-sealed return or exhaust air ducts float considerably. In cooling mode, _____

Floor Plenum Distribution Systems

Underfloor air distribution (UFAD) systems are designed to provide comfort conditions in the occupied level and allow stratification to occur above this level of the space. In contrast, room cooling loads determined by methods in this chapter assume _____

Ongoing research projects have identified several factors relating to the load calculation process:

- _____
- _____
- _____

Plenums in Load Calculations

Currently, most designers include ceiling and floor plenums within neighboring occupied spaces when thermally zoning a building. However, temperatures in these plenums, and the way that they behave, are significantly different from those of occupied spaces. Thus, they should be defined as a separate thermal zone. However, most hand and computer-based load calculation routines currently do not allow floating air temperatures or humidities; assuming a constant air temperature in plenums, attics, and other unconditioned spaces is a poor, but often necessary, assumption. The heat balance method does allow floating space conditions, and when fully implemented in design load software, should allow more accurate modeling of plenums and other complex spaces.

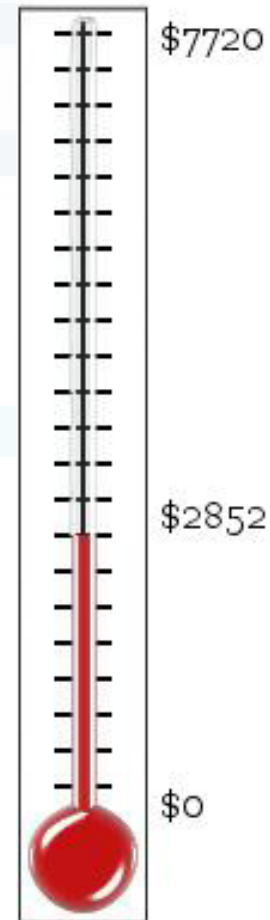
CENTRAL PLANT

Piping

Losses must be considered for piping systems that transport heat. For water or hydronic piping systems, heat is _____ see Chapter _____ for ways to _____ However, distribution of this transferred heat depends _____

Consider a heating hot-water pipe. If the pipe serves a room heater and is routed through the heated space, any heat loss from the pipe adds heat to the room. Heat transfer to the heated space and heat loss from the piping system is null. If the piping is exposed to ambient conditions en route to the heater, the loss must _____

2012-2013
Progress!!!



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)



Gold Level (\$2,500 minimum)



Silver Level (\$500 minimum)

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

Quality Air Control
Daikin AC
L.J. Early
Yeaton Associates
Hallam-ICS
Acme Engineering Prod. Inc
Vermont Gas Systems

Bronze Level (\$150 Minimum)

R.F. Peck
ARC Mechanical
Advanced Comfort Systems

Control Technologies
R.J. Murray
Dodge Engineering and Controls

Vermont Product Partners



2012-2013 Board of Governors



BOG MEETING MINUTES

March, 2013 BOG Meeting Minutes

Date: 03/11/2013
 Location: Hampton Inn, Colchester VT
 Time Called to Order: 4:09pm
 Called to Order By: Tom Dacres
 Minutes Recorded By: Rob Ward

ATTENDANTS

Tom Dacres	VHV
Rob Favali	Dubois & King
Dick Wilcox	VHV
Peter Bailey	Dodge Engineering & Controls
Rob Ward	VHV
Mike Cook	ARC Mechanical
Tom Zoller	Trane
Richard Vehlow	ASHRAE Region 1 RVC MP

LAST MEETING MINUTES

A motion was made by Mike C. to approve January 2013 Meeting Minutes. It was seconded by Dick W. and the motion was carried.

OFFICER REPORTS

A.) PRESIDENT: TOM DACRES

- a) Tom is working on completing the documents required for the ASHRAE State registration.
- b) A meeting for the CRC is scheduled for 03/22/13. There is only \$6100 of sponsorship funds left to collect.
- c) Tom gave an update of where we are at with PAOE Points
- d) Newsletters articles are due by 02/15/13.

e) Tom gave an update on the Presidential theme.

f) The nominating committee is made up of the following people:

- Tom Zoller
- Nathan Mascolino
- Jay Pilliod

B.) PRESIDENT ELECT: NATHAN MASCOLINO – CTTC CHAIR

a) Nathan did not attend this meeting but Tom noted that the April meeting at VTC has been confirmed. He also stated that the May meeting at Switchback confirmed as well.

C.) VICE PRESIDENT: ROB FAVALI

a) A motion was made by Rob F. to approve hotel expenses in the amount not to exceed \$300 for President Elect Training in Troy, NY. The motion was seconded by Peter B. All were in favor and the motion passed.

D.) TREASURER – PETER BAILEY

a) There was an open discussion about whether the invoicing or the newsletter ads should follow the calendar year or the ASHRAE year (Sept. - June). It was agreed that for the next ASHRAE year the invoicing would be done in September and would cover the next ASHRAE year (Sept. - June) 2013-14.

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

a) As of today we are at 36% of our fund raising goal with \$2797. At this point last year we were at \$3271.

F.) HISTORY: MIKE COOK

a) Mike started his submission for Gold Ribbon and is hoping to be complete for the April

newsletter.

b) Mike is going to do a history piece of past CRCs.

G.) REFRIGERATION: PETER BAILEY

a) Hill Phoenix to get back to Peter on the training date. It is no longer going to be held in March.

H.) ELECTRONICS COMMUNICATION CHAIR: RACHAEL MASCOLINO

a) The April 18th webcast needs to be added to the website.

I.) MEMBERSHIP PROMOTION CHAIR: JOSHUA CHIAPPONE

a) Nothing new to report. Richard Vehlow (MP RVC) attended the BOG Meeting. Rich mentioned that next year he will be joining the Grass Roots Government Committee.

J.) STUDENT ACTIVITIES – SHAWN LABELLE

a) Nothing new to report.

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

a) Nothing new to report

OLD BUSINESS:

None

NEW BUSINESS:

None

MEETING ADJOURNED

A motion was made by Mike Cook to adjourn the meeting. It was seconded by Rob Favali and the motion was carried. The meeting adjourned @ 5:14 PM.

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

March 18, 2013

Tom Dacres proposed and motion via email to pay out and write (3) three checks in the amount of \$250.00 (Two Hundred Fifty Dollars), \$250.00 (Two Hundred Fifty Dollars), and \$2,500.00 (Two Thousand Five Hundred Dollars), to this year's scholarship award winners.

The motion was seconded by Rob Favali

There was no further discussion and all were in favor. The motion passed.

GENERAL MEETING

March 11, 2013 General Meeting Minutes

Date: 03/11/13

Location: Hampton Inn, Colchester VT

Minutes Recorded By: Rob Ward, Secretary

ATTENDANTS

Tom Dacres	Vermont Heating & Ventilating
Tom Zoller	Trane
Peter Bailey	Dodge Engineering
Jay Pilliod	Efficiency Vermont
Ray Hickey	Advanced Comfort Systems
Harris Unger	Advanced Comfort Systems
Ray Keller	Vt Gas
Steve Kreigh	Mylan Technologies
Michael Cook	ARC
Howard Merson	Efficiency Vermont
Cody Lezak	VEIC
William Moore	TCorp
Mike Spasyk	Dubois & King Inc.
Natasha DeGuile	Blake Equipment
Todd Hallock	FW Webb Co
Scott Harrington	Vt Gas
Shawn Kelly	GeoDesign Inc., - Speaker
Jeffery Mountain	Norwich University - Speaker
Chris Reilly	VTC

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Bill Root	GWR Engineering
Richard Vehlow	ASHRAE RVC MP
Rob Ward	Vermont Heating & Ventilating
Dave Cacciamani	VTC
Chuck Rainville	Hallam-ICS
Steve Poole	Vermont Heating & Ventilating
Ed Sullivan	Weil Mclain

Tom Dacres addressed the attendees and announced the topic of the meeting and who would be presenting. The topic was the new model law proposed by the National Council of Examiners for Engineering and Surveying (NCEES) which would require a Master's Degree or Equivalent (MOE) to become eligible for obtaining a license as a Professional Engineer (PE) beginning in 2015.

FIRST PRESENTER

The first presenter was Shawn P. Kelley, PhD., P.E. who presented in favor of the NCEES Rule. Shawn's presentation was followed by a question and answer session.

The meeting took a break for dinner from 7-8pm

SECOND PRESENTER

The second presenter was Jeffrey R. Mountain, PhD., P.E. who presented against the NCEES Rule. Jeffrey's presentation was followed by a question and answer session and a short rebuttal by Shawn Kelly who took the time to answer more question that had come up as a result of Jeffrey's presentation.

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



SAVE THE DATE: APRIL 18TH

Assessing Building Energy Performance: From Principles to Practice - FREE ASHRAE webcast hosted by CVC at Vermont Heating & Ventilating Co. in Winooski, VT. 1:00 PM to 4:00 PM - FREE lunch will be provided by Efficiency Vermont!
(see flyer on next page)



ASHRAE's upcoming webcast, titled *Assessing Building Energy Performance: From Principles to Practice*, will broadcast live on April 18, 2013, from 1:00 – 4:00 pm EDT. This FREE webcast is brought to you by the Chapter Technology Transfer Committee and hosted by the Champlain Valley Chapter.

The webcast will be shown live at
16 Tigan Street, Winooski, VT 05404



FREE Lunch will be provided at **12:00 PM** sponsored by:



"This webcast will focus on the importance of building energy performance and its far reaching implications in both new and existing buildings," said Andy Cochrane, Chair of the CTTC Webcast Ad Hoc Committee. "This program will help participants to recognize the opportunities that *Assessing Building Energy Performance (ABEP)* presents. From recognizing the different approaches, team skills, and knowledge needed to properly assess building energy performance, to the application of ASHRAE building audit levels, this webcast will provide viewers with an understanding of ABEP principles and practical application knowledge."

The webcast presenters are:

- Christopher Mathis, President, MC Squared, Asheville, NC
- Drury Crawley, Ph.D, Director of Building Performance, Bentley Systems, Washington, DC
- Jim Kelsey, LEED AP, PE, BEAP, Principal, kW Engineering, Oakland, CA
- Thomas E. Watson, ASHRAE President, Chief Engineer, Daiken McQuary, Staunton, VA

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the "Participant Reaction Form" by May 2, 2013.

Registration details to follow.

Brought to you by the ASHRAE Chapter Technology Transfer Committee

www.ashrae.org/abepwebcast



Presenters



Thomas E. Watson,
ASHRAE President



Drury Crawley, Ph.D



Jim Kelsey, LEED AP,
P.E., BEAP



Christopher Mathis

Assessing Building Energy Performance:

From Principles to Practice

April 18, 2013 | 1:00 PM-4:00 PM EDT

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

How to Participate

- You may register to view the webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the "Participant Reaction Form" by May 2, 2013.

For more information about the program, presenters, continuing education credits, sponsorships, and ABEP resources, please visit us at www.ashrae.org/ABEPwebcast OR scan this tag with your smart phone.



Get the free mobile app at
<http://gettag.mobi>



NEW ENERGY STAR HOMES HVAC REQUIREMENTS ARE IN EFFECT

Are you designing or installing an HVAC system for a home under the new ENERGY STAR Homes Version 3 (V.3) Program specifications? There are several significant updates in the new criteria aimed at increasing the energy efficiency, comfort, and durability of ENERGY STAR homes. One important new requirement is that all applicable criteria in the ENERGY STAR HVAC checklists must be met and verified. Homes with ducted heating and/or cooling (or ground source heat pump, regardless of distribution system) have specific requirements that need to be performed, or at least verified, by an HVAC contractor who is credentialed through an EPA-approved Quality Assurance organization.

Currently the two EPA-approved credentialing organizations are:

- Air Conditioning Contractors of America (ACCA) <http://qacontractors.org/new-homes/>,
and
- Advanced Energy www.advancedenergy.org/QAP/program_information.php.

Both credentialing organizations provide training and support for HVAC contractors seeking qualifications needed to work on ENERGY STAR V.3 homes. In home installations using a boiler, space heater, or ductless mini-split for space heat with no ducted air conditioning, an ACCA- or Advanced Energy-credentialed contractor is not required.

As the sponsor of the Vermont ENERGY STAR Homes Program, Efficiency Vermont is committed to increasing the numbers of, and access to, ACCA- or Advanced Energy-credentialed contractors. Toward that end, Efficiency Vermont will pay half the cost for interested HVAC contractors to obtain the credentialing needed to work on ENERGY STAR V.3 homes. For information about this credentialing offer or about how ACCA- or Advanced Energy-credentialed contractors can “sign-off” on other HVAC contractors’ work, contact Chris Gordon at 888-921-5990, ext. 7683 or cgordon@veic.org.

For more information on Efficiency Vermont’s Residential New Construction service, visit www.encyvermont.com/rnc or contact Jeff Gephart at 800-893-1997 or vtwise@together.net.

Leadership Quote of the Month

“Engineering is a great profession. There is the satisfaction of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realisation in stone or metal or energy. Then it brings homes to men or women. Then it elevates the standard of living and adds to the comforts of life. This is the engineer’s high privilege.”

~ Herbert Hoover

ASHRAE Learning Institute 2013 Spring Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.



Basics of High-Performance Building Design

Mon, March 18, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Tom Lawrence, Ph.D., P.E., Member ASHRAE, LEED® AP

Air-to-Air Energy Recovery Fundamentals

Wed, March 20, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Paul Pieper, P.Eng., Member ASHRAE

Advanced High-Performance Buildings Design

Mon, March 25, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Jeff Ross-Bain, P.E., Member ASHRAE

Air-to-Air Energy Recovery Applications: Best Practices

Wed, March 27, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Paul Pieper, P.Eng., Member ASHRAE

Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 17, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Joe Deringer, AIA, Member ASHRAE, LEED® AP



Humidity Control Troubleshooting

Mon, April 22, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Lew Harriman, Fellow ASHRAE

Combined Heat & Power: Creating Efficiency Through Design & Operations

Wed, April 24, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Lucas Hyman, P.E., Member ASHRAE, LEED® AP

Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 29, 2012 – 1:00 pm to 4:00 pm EDT

Instructor: Mack Wallace, P.E., Member ASHRAE, LEED® AP

The Commissioning Process & Guideline 0

Wed, May 1, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Walter Grondzik, P.E., Fellow/Life Member ASHRAE, LEED® AP

Fundamental Requirements of Standard 62.1-2010

Wed, April 17, 2013 – 1:00 pm to 4:00 pm EDT

Instructor: Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

Take 3 or more courses and save 20% off registrations!

Register at www.ashrae.org/onlinecourses

Site Licenses are available for 5 or more registrants!

HVAC Design Training

Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

This training provides intensive, practical education for designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

Registration is \$1239, \$989 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!



HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Registration is \$829, \$679 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!

Visit www.ashrae.org/hvacdesign to register

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	205
Student Activities	500	685
Technology Transfer	850	675
Research & Promotion	1050	765
History	300	100
Chapter Operations	600	790
Chapter TOTAL	4100	3220

2012-2013 BOARD OF GOVERNORS

Joshua Chiappone T: (518) 817-8669 joshua.j.chiappone@jci.com	Shawn LaBelle T: 802-857-5011shawn. ShawnL@amivt.com
Rachael Mascolino T: (802) 540-7846 rmascolino@veic.org	Mike Cook T: (802) 291-0911 mcook@arcmech.com
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President- Elect	Nathan Mascolino, PE, LEED AP (802) 861-6148 nathanm@vhv.com
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Membership	Joshua Chiappone (518) 817-8669 joshua.j.chiappone@jci.com
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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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