AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONAING ENGINEERS, INC.

ASHRAE Champlain Valley Chapter

The Champ Monthly Newsletter

of the Champlain Valley Chapter of ASHRAE

MAR 2013

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Vol.27 No.06

PRESIDENT'S MESSAGE

I hope this newsletter finds everyone well and you're getting out to play in the recent snow we received lately. It's been a decent year for outdoor activities (better than last year anyway) and not too bad on the back!

Thanks to everyone who came out to the February meeting to see and hear Dan Harris P.E. from the New Buildings Institute. Dan's informative presentation on control and efficiency strategies for Rooftop Units was very useful and provided in-sight on retrofit controls applications based on lab and field testing.

I'm sorry to report that our highly anticipated tour of Green Mountain Coffee Roasters plant in Essex, VT has been cancelled. Due to the sensitive nature of GMCR's operation they were unable to accommodate a tour of Engineers. It's hard to beat a good tour but our alternate March meeting should be a good. Look for more info soon.

The Nominating Committee for the ASHRAE CVC 2013/14 year is hard at work selecting the best qualified candidates to serve you, the CVC members. Please contact Nathan

ASHRAE CVC UPCOMING EVENTS

March 2013 Monthly Meeting

When: Wednesday, March 6th

Where: The Hampton Inn, Colchester, VT

Schedule:

4:00PM BOG Meeting
5:00PM Social Hour Cash Bar
6:00PM VT State Representative Robert Krebs along with Brad Aldrich, PE will present in favor of the NCEES Rule.
7:00PM Dinner Served
8:00PM Jeffrey R. Mountain, phD will give a presentation in opposition to the proposed NCEES rule.

contents

chapter reports

Mascolino, Tom Zoller, or Jay Pilliod if you are interested in becoming a part of the CVC team. Nathan is also looking to fill Committee Chair positions for the 2013/14 year; these are appointed positions by the President. The open positions are Student Activities Chair, Young Engineers in ASHRAE (YEA), and Grassroots Government Activities Committee (GGAC). PLEASE contact Nathan if you're interested or know someone that is.

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!

- Tom Dacres

TREASURE'S REPORT

I am pleased to report that our computer issues are fixed and our Quick Books has been restored. As of February 12, 2013 our TD Bank account is $10,521.65 - all of our bills are paid and our ASHRAE CVC account is reconciled.

Our CRC-2013 Bank checking account is $14,020.23 up again from last month as money has still been coming in for our 2013 CRC sponsorship donations. 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

2012-2013 ASHRAE CVC MEETING CALENDAR

September 5	October 3	November 7	December 5	January 9
4:30 pm: BOG Meeting @ Hampton 6:00 pm: Hydronic System Design & Boiler selection- Edward Sullivan (Weil McLain) 7:00 pm: Dinner @ Hampton 8:00 pm: Variable Speed pumping - Bill Reid Urell Inc	4:30 pm: BOG Meeting @ Hampton 6:00 pm: Brattleboro Food co op - Andy Sapiro 7:00 pm: Dinner @ Hampton 8:00 pm: 2012 Fire & Building Safety Code - Bob Patterson	4:00 pm: BOG Meeting @ Hampton 5:00 pm: Social Hour - Membership Promotion Night 6:00 pm: ASHRAE CVC Business 6:30 pm: Dinner @ Hampton 7:15 pm: Richard Vehlow - Region 1 RVC MP Presentation 7:30 pm: Natural Gas in VT. VT Gas future plan/ Fracking-Facts	4:00 pm: BOG Meeting @ Hampton 5:00 pm: Social Hour - Holiday Mixer 6:00 pm: ASHRAE CVC Business 6:30 pm: Dinner @ Hampton 7:30 pm: Sustainable Presentation Joint meeting with VGBN/ AIA	4:30 pm: BOG Meeting @ Hampton 6:00 pm: Christopher M. McDonlad. IAQ & Mold: Legal Issues and Liability Concerns for Engineers & Related Industry Professionals 7:00 pm: Dinner @ Hampton 8:00 pm: ASHRAE Continuation of 6pm presentation

February 6	March 6	April 3	May 1	Aug 15-17
4:00 pm: BOG Meeting @ Hampton Inn 5:00 pm: Social Hour Cash Bar 5:45 pm: Buffet Dinner Served 6:30 pm: Main Presentation- Dan Harris P.E. from the New Buildings	4:00 pm: BOG Meeting @ Hampton Inn 5:00 pm, Social Hour and cocktails 6:00 pm: VT State Rep. Robert Krebs, & Brad Aldrich, PE will present in favor of the NCEES Rule 7:00 pm: Buffet Dinner Served 8:00 pm: Jeffrey R. Mountain, phD will give a presentation in opposition to the proposed NCEES rule	BOG Meeting - TBD 5:00 pm: Vermont Technical College - Red School House 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 Dinner Served @ Red School House VTC	5:30 pm: Tour + BBQ + MP night Meeting Theme: Tour of the Switchback Brewery new bottling line.	ASHRAE Region 1 Chapter Regional Conference (CRC) Hilton Hotel Burlington, VT

TECHNOLOGY TRANSFER

Hello all. I hope that February has found everyone in the pursuit of building science education well. I would like to give credit where credit is due and tell all those involved with the planning of the Efficiency Vermont Better Building by Design conference… Nice Job. I had the good fortune of attending the conference for one day and was impressed. The conference is a prime opportunity to collect a bunch of industry related information, and continuing education credits. Not to mention the technology on display. If you missed it this year mark your calendar for next.

I would also like to thank Efficiency Vermont for sponsoring the speaker for our February meeting.

I have an unfortunate announcement this month. The facility tour that we had planned for March at the Green Mountain Coffee Roasting facility has been canceled. The program committee is working diligently to nail down a speaker. Keep your eyes out for a meeting announcement that will come following the news letter. The target for the newly revised March meeting is going to be refrigeration, and we are hoping to join up with our friends at RSCS. As the details become available an update will be distributed.

Looking ahead from March we have what looks like a great stretch of meetings. In April we will be traveling to VTC again and will be holding a joint meeting with our student chapter. This year we will be holding our meeting in the "Little 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. In May we will be returning to the Switchback brewery to tour (and sample) their new bottling line. May promises to be a successful meeting.

Stay warm and put some wax on your skis

- Nathan Mascolino

MEMBERSHIP PROMOTION

Hello Everyone,

I would like to start out this month's newsletter by thanking all of you who received our notice about delinquency membership and did your part by hopping on the ASHRAE website and renewing your membership. As a chapter, we appreciate your attention to this and of course, your continuing support. I would also like to welcome a new member to our chapter, Crystal Price from Plattsburgh State University. Please do your best to welcome her at our upcoming meetings.

Shifting gears, the new Membership Incentive idea seems to have a slow start. Not many folks have given us a heads up as far what guests they have been bringing to our meetings. This idea can only come to fruition if we get participation from our current members. We will keep this running for a few more months to see if it gains traction. Remember, a significant prize awaits for those who take an interest in this idea.

As always, thanks for all the help and support to grow our great chapter.

See you at the meeting,
Josh Chiappone
Membership Promotion Chair

Leadership Quote of the Month

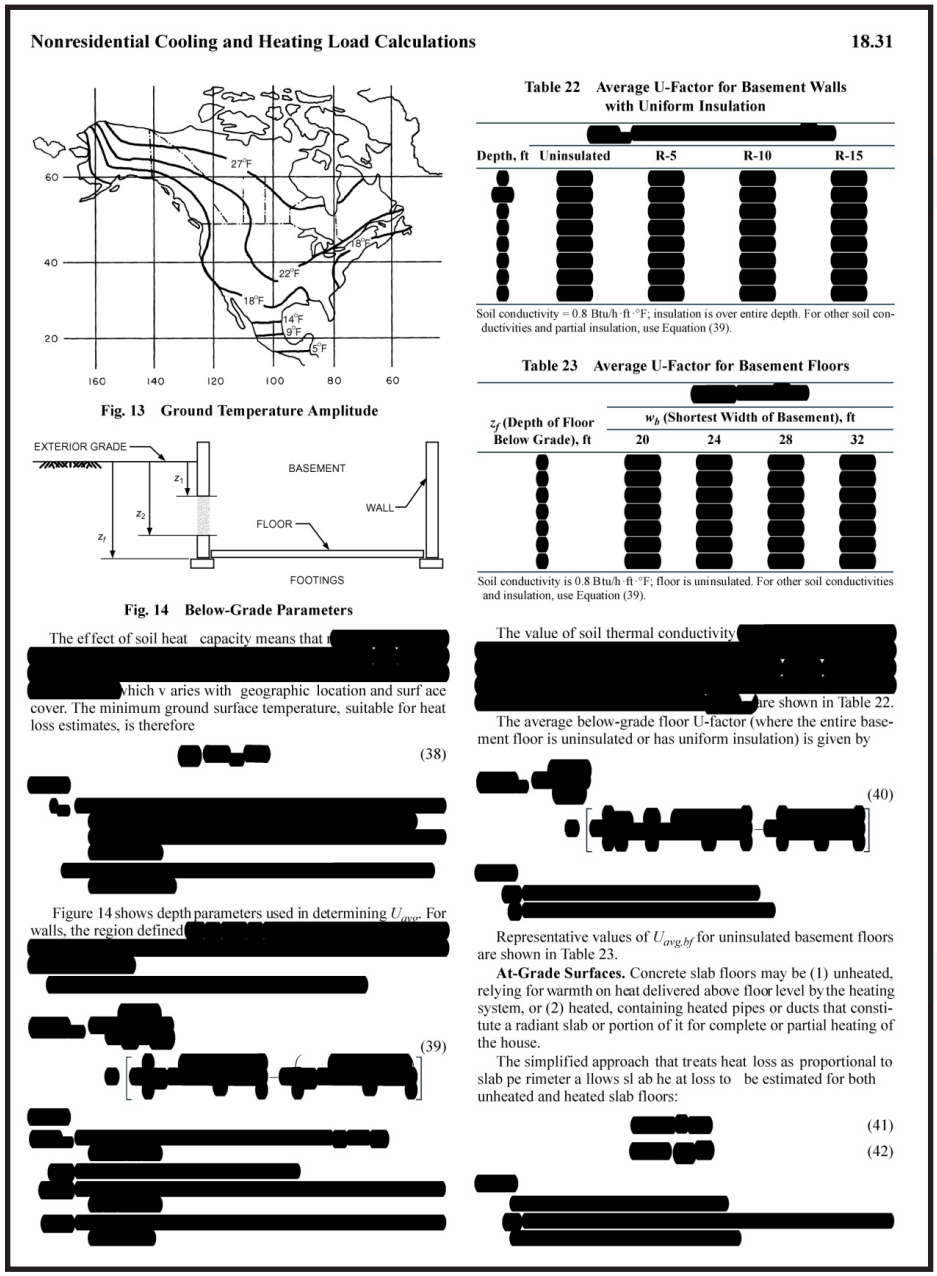
"A genuine leader is not a searcher for consensus but a molder of consensus."

~ Martin Luther King, Jr.

RESEARCH PROMOTION

2012-2013 Progress!!!

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.



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

(38)

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

(39)

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

Depth, ft	Uninsulated	R-5	R-10	R-15
[redacted]				

Soil conductivity = 0.8 Btu/h·ft·°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
[redacted]				

Soil conductivity is 0.8 Btu/h·ft·°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

(40)

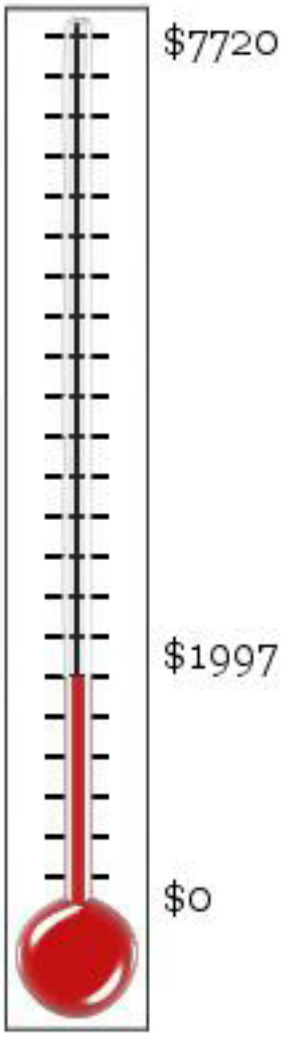
Representative values of $U_{avg,bf}$ for uninsulated basement floors are shown in Table 23.

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:

(41)

(42)



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

Rob Ward - RP Chair

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 deductable, 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

ASHRAE Champlain Valley Chapter

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)

1913 TRANE 2013

URELL Building Partnerships that Work.

Gold Level ($2,500 minimum)

TCV TEMPERATURE CONTROLS OF VERMONT

Efficiency Vermont

WEIL-McLAIN

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

Vermont Product Partners

BEN & JERRY'S

Switchback Brewing Co Burlington, VT

WORLD'S BEST CHEDDAR
OWNED BY 1000 FARM FAMILIES IN NEW YORK & NEW ENGLAND
SINCE 1919
CABOT


2012-2013 Board of Governors

BOG MEETING MINUTES

February 6, 2013 BOG Meeting Minutes

Date: 02/06/2013
Location: Hampton Inn, Colchester VT
Time Called to Order: 4:17pm
Called to Order By: Nathan M.
Minutes Recorded By: Nathan Mascolino

ATTENDANTS

Tom Dacres	VHV
Nathan Mascolino	VHV
Dick Wilcox	VHV
Peter Bailey	Dodge Engineering and Controls
Joshua Chiappone	Johnson Controls
Tom Zoller	Trane

LAST MEETING MINUTES

A motion was made by Peter B. to approve January 2013 Meeting Minutes. It was seconded by Peter B. and the motion was carried.

OFFICER REPORTS

A.) PRESIDENT: TOM DACRES

a) Tom its working on completing the documents required for the ASHRAE State registration.
b) A meeting for the CRC is scheduled for 01/10/13.
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) There was a brief discussion about the nominating committee. Nathan M along with Jay Pilliad will be on the committee and Tom Zoller will be the chair.

B.) PRESIDENT ELECT: NATHAN MASCOLINO – CTTC CHAIR

a) Nathan stated that the February meeting will have a single speaker. There was a general discussion on how to increase the attendance for this meeting because it competes with the Better Buildings By Design conference in Burlington every year.

C.) VICE PRESIDENT: ROB FAVALI

a) Nothing new to report

D.) TREASURER – PETER BAILEY

a) People stated that there are still 9 people that have yet to pay for their ads in the newsletter..

b) Nathan M. noted that the room fees for the DL would be added to the bill for the meeting.

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

a) Nothing new to report.

F.) HISTORY: MIKE COOK

a) Mike started his submission for Gold Ribbon

G.) REFRIGERATION: PETER BAILEY

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

H.) ELECTRONICS COMMUNICATION CHAIR: RACHAEL MASCOLINO

a) Nothing new to report

I.) MEMBERSHIP PROMOTION CHAIR: JOSHUA CHIAPPONE

a) here will be a membership promotion night in May

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 Tom Dacres to adjourn the meeting. It was seconded by Nathan M and the motion was carried. The meeting adjourned @ 5:26 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

February 6. 2013 General Meeting Minutes

Date: 02/06/13
Location: Hampton Inn, Colchester VT
Minutes Recorded By: Rob Ward, Secretary

ATTENDANTS

Tom Dacres	Vermont Heating and Ventilating
Nathan Mascolino	Vermont Heating and Ventilating
Dick Wilcox	Vermont Heating and Ventilating
Tom Zoller	Trane
Peter Bailey	Dodge Engineering
Jay Pilliod	Efficiency Vermont
Ray Hickey	Advanced Comfort Systems
Harris Unger	Advanced Comfort Systems
Jason Hudspath	Thermal Environmental Sales
Joseph Kazukenus	Thermal Environmental Sales
Ray Keller	VT Gas
John Plankey	Vermont Mechanical Inc
James LaVallee	Vermont Mechanical Inc
Ray Spears	Trane
Steve Kreigh	Mylan Technologies
Michael Cook	ARC
Bill Gregory	L.J. Early
Justin Webb	Control Technologies
Steve O'Malley	Vermont Energy Investment Corp
Rich Freddette	Urrell Inc.
John Strobel	Victaulic
Howard Merson	Efficiency Vermont
Joe Furman	Automated Logic
Cody Lezak	VEIC
Iris Davis	Dubois & King Inc.
Scott Alexander	LN Consulting
William Moore	TCorp
Amy Patenaude	VEIC
Mike Spasyk	Dubois & King Inc.
Steve Dumas	Dubois & King Inc.
Sheryl Graves	VEIC
Mike VanHorn	Control Technologies
Dan Harris	New Building Institute

MAIN PRESENTATION

Dan Harris presented some of the research the New Building Institute has done on commercial building energy efficiency for HVAC.

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

ASHRAE FACT SHEET: ADDITIONAL LICENSURE REQUIREMENTS FOR ENGINEERS

The Issue

The purpose of engineering licensure in the United States is to ensure the health, safety, and welfare of the public. Fitness for licensure is based upon the completion of an ABET-accredited engineering degree; passage of two examinations; and at least four years of experience under the direction of a licensed engineer. Within certain engineering disciplines and with the support of several national engineering societies, there is an effort to require significant additional coursework for engineering graduates to obtain a license. This initiative is called, alternatively, "master's-or-equivalent (MOE)," "bachelor's-plus-30 (BS+30)," or "Raise the Bar."

Summary of ASHRAE's Position

The additional coursework would increase the cost and time commitment associated with licensure and could result in a decrease in licensed engineers while providing no additional benefit to protecting the health, safety, and welfare of the public. Consequently, ASHRAE opposes these efforts and believes processes already exist to ensure that engineers remain up to date on best practices and available technologies. ASHRAE chapters and members are encouraged to contact their state licensure boards to express these sentiments and urge them to oppose any proposals seeking to mandate additional education as a prerequisite to licensure.

ASHRAE is just one of numerous engineering societies that have joined the Licensing That Works Coalition, which is dedicated to combating MOE/ BS+30/Raise the Bar in any state in which it crops up.

Background

The National Council of Examiners for Engineering and Surveying (NCEES), which serves as the federation of state licensure boards, develops model laws relative to state engineering and surveying licensure. In 2006,

NCEES suggested the addition of model language, which, if adopted by a state licensure board (or, in some cases, by a state legislature), would require an engineer intern with a bachelor's degree to acquire at least 30 additional credits of upper level undergraduate or graduate level coursework in order to be admitted to the Principles and Practice of Engineering (PE) examination.

NCEES claims that it was motivated to require additional credits because of the decreasing average in requirements for a bachelor's degree in engineering from an average of 144 credits 25 years ago to an average of 128 credits today.

The First Professional Degree (FPD) in engineering has long been considered to be the degree needed for the practice of engineering. The FPD informs licensing bodies and the public at large about the minimum requirements that qualify an aspiring professional for practice. Since the 1920s, the FPD in engineering in most regions of the world has been a baccalaureate degree, requiring the equivalent of approximately four years of full-time study.

In the present day, the "typical" engineering baccalaureate degree requires courses in mathematics; physical sciences and life sciences; fundamentals and practice of engineering; laboratory and design experience; metrology and experimentation; ethics and professionalism; and selected topics from other disciplines, including the liberal arts and business. Some programs also include industry-

based experience through cooperative education or internships.

Talking Points

Before implementing new licensure requirements, state policymakers should consider the following points:

- States license engineers to protect the health, safety, and welfare of the general public, but there is no concrete evidence demonstrating significant improvement in improving that protection. Furthermore, such requirements would have a considerable impact the engineering workforce.
- As concern grows about the nation's capabilities in science, engineering, and technology, it is imperative that we expand our technological workforce. However, of the total degrees awarded annually, the percentage of engineering degrees has declined from a high of 7.7 percent in 1984 to only 4.3 percent today. Additional requirements will make it even more difficult to attract the highly capable students necessary to ensure technological growth. As countries such as China and India make significant gains as far as graduating engineers, the nation will be under increased pressure to remain a global leader in science and technology.
- For engineering graduates who enter the full-time workforce immediately after completing their bachelor's degree, it is anticipated that it will take at least five years to obtain the additional 30 credits. This adds at least one more year between the Fundamentals of Engineering (FE) and PE exams, which, to reiterate, is likely to reduce the total number of engineers licensed to practice.
- For students who intend to complete all academic requirements prior to leaving campus, additional coursework will not only require a commitment of time, but significant financial outlays for added tuition and room-and-board expenses. Such expense, time, and lost income is likely to be a significant deterrent to capable students – especially those from underrepresented groups – who may otherwise pursue an engineering degree.
- Additional educational requirements for licensure may reduce the supply of licensed engineers able to practice in a state, thus reducing the state's technological competitiveness and potentially raising the cost for engineering services.
- Existing mechanisms already ensure the presence of highly competent professional engineers. ABET-accredited bachelor's degree programs demonstrate the technical breadth and flexibility and intellectual skills necessary for engineering graduates to pass the FE exam, complete an internship under a licensed engineer, and pass the PE exam. Moreover, states have oversight mechanisms in place that are triggered when individual engineers or parts of the system have fallen short of professional expectations. Lastly, continuing education programs assure engineers remain current on technological advances and best practices throughout their careers.
- Though some baccalaureate degree programs have reduced the number of required credit hours in recent decades, as a result of more efficient methods of engineering education, this change has resulted in no drop in the test scores on engineering licensure exams.

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)

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www.ashrae.org/abepwebcast

Brought to you by the ASHRAE Chapter Technology Transfer Committee

FREE ASHRAE Webcast

Assessing Building Energy Performance:

From Principles to Practice

April 18, 2013 | 1:00 PM–4:00 PM EDT

Presenters

Thomas E. Watson, ASHRAE President

Drury Crawley, Ph.D

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

Christopher Mathis

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

ASHRAE

RESOLUTION ON ADDITIOAL REQUIREMENTS FOR LICENSURE AS A PROFESSIONAL ENGINEER

Whereas, in 2006, the National Council of Examiners for Engineering and Surveying (NCEES) approved language in its model law requiring an additional 30 credit hours – roughly the equivalent of a master's degree – for obtaining licensure as an Professional Engineer (PE), beginning in 2015.

Whereas, in 2008, NCEES extended its timeline for implementation of that requirement to 2020.

Whereas, initiatives related to these proposed licensure revisions are alternatively known as "bachelor'splus-30" (BS+30) or "master's-or-equivalent" (MOE).

Whereas, the typical scope of an ABET-accredited bachelor's degree has been shown time and again to accommodate technical breadth and flexibility and the intellectual skills necessary for engineering graduates to fulfill requirements necessary for PE licensure.

Whereas, the current system of examinations and supervision in practice are workable, effective, and adaptable, resulting in highly competent PEs.

Whereas, states license engineers to protect the health, safety, and welfare of the general public, but there is no concrete evidence to support the contention that additional education requirements demonstrate significant improvement in improving that protection.

Whereas, committing an additional year to obtain an extra 30 credits would be a significant deterrent for many interested and capable students who might otherwise pursue engineering degrees and careers.

Whereas, additional education requirements would likely result in a reduced supply of licensed engineers able to practice in a state, a lessening of that state's technological competitiveness, and an increase in costs for engineering services.

Whereas, technological change is continuous and, as such, professionalism and continuing education throughout an engineering career are imperatives.

Whereas, ASHRAE will continue to develop educational programs that assure its members remain at the forefront of engineering practice and technologies.

Resolved, the ASHRAE Board of Directors opposes efforts to increase educational requirements for licensure as a Professional Engineer and encourages states and licensing boards to reject such proposals for the aforementioned reasons.

Lighting Efficiency Improvements Proposed for Standard 90.1

Contact: Jodi Scott
Public Relations
678-539-1216
jscott@ashrae.org

Lighting Efficiency Improvements Proposed for Standard 90.1

ATLANTA - Proposed changes to the ASHRAE/IES energy standard will require automatic lighting controls in more space types and shorten the times before lighting is automatically reduced or shut off.

Addendum by to ANSI/ASHRAE/IES Standard

90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, was developed in response to requests from the design community, which asked for a tabular structure for specifying the controls requirements. By putting these requirements into an easier-to-use tabular format, the provisions will be clearer, more likely to be complied with and easier to enforce, according to Eric Richman, chair of the standard's lighting subcommittee.

The addendum is open for public review from Feb. 15-April 1, 2013. For more information, visit www.ashrae.org/publicreviews.

"The proposed addendum is the product of both the interest in increasing lighting controls use where practical and simplifying the standard," Richman said.

The 2010 version of the standard includes basic shutoff and occupancy sensor type controls in selected spaces. The addendum will increase the use of occupancy based control to all spaces in a building where practical. At the same time, additional partial on and partial off controls are added to further reduce full on lighting when spaces are typically unoccupied. For example, many spaces that are not always practical applications for full automatic off (such as corridors) would require at least partial automatic off when the space is unoccupied.

The new tabular format allows users to see all requirements for most interior space types and categories in one simple look-up table.

"This new representation and update of control requirements will reduce the time that lighting is on at full levels in many spaces and make the requirements easier to understand and therefore comply with and inspect to," he said. "Both of these conditions will improve energy efficiency of the building."

Also open for public review is addendum ay from Feb. 15-March 17, 2013. The proposed addendum corrects a couple of small editorial issues and raises the threshold for when daylight responsive controls are required so that they are cost effective in all climate zones.

ASHRAE™

Shaping Tomorrow's Built Environment Today

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.

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.

CEU/PDH Credits Available!

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

NEW **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.

Early Bird Special Register and Save $50.

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	0
Technology Transfer	850	675
Research & Promotion	1050	735
History	300	100
Chapter Operations	600	770
Chapter TOTAL	**4100**	**2485**

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
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
Treasurer	Peter Bailey | (802) 434-2278 pfbailey@deicontrols.com
COMMITTEE CHAIRPERSONS	
Student Activities	Shawn LaBelle | 802-857-5011 ShawnL@amivt.com
Membership	Joshua Chiappone | (518) 817-8669 joshua.j.chiappone@jci.com
Research Promotion	Robert Ward III, LEED AP (802) 861-6194 robw@vhv.com
Technology Transfer	Nathan Mascolino, PE, LEED AP (802) 861-6148 nathanm@vhv.com
Refrigeration	Peter Bailey | (802) 434-2278 pfbailey@deicontrols.com
Historian	Mike Cook | (802) 291-0911 mcook@arcmech.com
Electronic Communications	Rachael Mascolino | (802) 540-7846 rmascolino@veic.org
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