



# the Champ

## Monthly Newsletter of the CHAMPLAIN VALLEY CHAPTER OF ASHRAE

Serving Vermont Since 1969

### PRESIDENT'S MESSAGE



Spring has arrived with unseasonably warm weather which makes it difficult to justify spending (my) weekend inside watching the annual crowning of a collegiate basketball champion, known as March Madness. I would

like to extend our appreciation to ASHRAE Distinguished Lecturer Daniel Nall for his presentations on the ASHRAE advanced Energy design guide for focusing on 50% savings for small and medium offices and an update on ASHRAE's building energy Quotient ( bEQ) program. Mr. Nall's presentation on the 50% AEDG discussed the guide's recommendations for building envelope systems, lighting and day-lighting systems and building mechanical systems. His presentation on bEQ discussed the major ideas behind the development of the bEQ labeling program and the proposed process for implementation. The goal of the labeling program is to establish a method to express in a clear and quantifiable way the performance of the building as operated and the potential performance of the fixed assets of the building.

We are closing in on the end of our chapter year with several excellent programs! Our April 19 program will take place at Judd gymnasium on the VTC campus (Randolph, Vt.) and will feature an ASHRAE webcast on Dedicated Outdoor Air Systems from 1:00 PM to 4:00 PM. See the flyer in this month's newsletter for more information on this presentation. I encourage our membership to attend this program and show our support for

### Join Us For Our Next Meeting

#### BOG Meeting

April 11 at 4:00 pm @ Efficiency Vermont

#### April 19, 2012 Meeting

@ V TC Judd Gymnasium

#### **1:00 PM – 4:00 PM Main Presentation**

ASHRAE DOAS webcast  
(see flyer in newsletter)

#### **4:30 PM Student Presentation**

Report on trip to ASHRAE winter conference  
in Chicago Dinner @ 5:00 PM

#### **5:45 PM – Student Presentation**

**Presentation on their submission for the  
annual ASHRAE HVAC Student Design  
Competition**

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# 2011-2012 ASHRAE CVC MEETING CALENDAR

April 2012  
Vol. 26 No. 8

September 7	October 5	November 2	December 7	January 4
<p><b>Location: Hampton Inn</b></p> <p><b>4:00 pm:</b> BOG Meeting @ VHV Offices</p> <p><b>5:30pm:</b> Tour FAHC Boiler Plant</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Presentation David Golen FAHC Boiler Room Plant Upgrades</p>	<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting @ Hampton Inn</p> <p><b>6:00pm:</b> Tech Session BMS and Lighting Controls Randy Mead CTI, C.E.M., CMVP, LEED AP</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Presentation Utilizing a BMS in the Building Commissioning Process / John R. Butterfield, P.E. Hallam Associates</p>	<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting @ Hampton Inn</p> <p>Membership Promotion Night and Joint Meeting with RSES</p> <p><b>6:00pm:</b> Tech Session Overview on all Refrigerants Steve Friedman, PE, HFPD, LEED AP BD+C - Region 1 Refrigeration Chair</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Presentation Milton Garland Award Winning Project Overview Featuring a CO2 Refrigeration System / Mark Cambria, P.E., LEED AP BD+C, CCP</p>	<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting @ Hampton Inn (Joint Meeting with VGBN)</p> <p><b>5:30 - 6:30pm:</b> Social Mixer</p> <p><b>6:30pm:</b> Presentation Emerging Energy Modeling Tools Joshua W. Talbert, P.E., LEED AP BD+C Christopher K. Wilkins, P.E. Hallam-ICS, Director of Engineering</p>	<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting @ Hampton Inn (Joint Meeting with AIA on non-HVAC topic)</p> <p><b>6:00pm:</b> Contract Law &amp; T&amp;M vs Flat Rate Pricing and Billing Strategies</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Section 179D Federal Energy Tax Deduction Seminar</p>
				<p><b>January 16 &amp; 17</b></p> <p><b>Full day Seminar with Efficiency Vt/VGBN/ BED</b></p> <p><b>Energy Modeling in eQuest</b></p> <p><b>RP Fundraiser</b></p>
February 1	March 7	April 19	May 9	June 6
<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting @ Hampton Inn</p> <p><b>6:00pm:</b> VT Commercial Energy Code and Compliance Plan Seminar - By Tim Guiterman - Navigant and Barry Murphy -Vermont Department of Public Service</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Life Group LEED-EB silver accreditation Project - By Tim Shea</p>	<p><b>Location: Hampton Inn</b></p> <p><b>4:00pm:</b> BOG Meeting</p> <p><b>6:00pm:</b> Tech Session DL Daniel Nall 50% Small and Medium Office AEDG</p> <p><b>7:00pm:</b> Dinner @ Hampton Inn</p> <p><b>8:00pm:</b> Presentation DL Daniel Nall ASHRAE Building Energy Quotient (bEQ)</p>	<p><b>Location: VTC</b></p> <p><b>TBD:</b> BOG Meeting <b>APRIL 11</b> @ Efficiency Vermont</p> <p>VTC ASHRAE Club as Host</p> <p><b>Program</b> 1:00pm - 4:00pm ASHRAE Webcast "DOAS - A Path to Balancing Energy and IEQ." 4:30pm Student Report on Chicago ASHRAE show 5:00pm - Dinner 5:45pm Presentation on 2012 Student Design Competition Submission</p>	<p><b>Location: Magic Hat</b></p> <p><b>TBD:</b> BOG Meeting</p> <p>Membership Promotion Night</p> <p>Facility Tour - Proposed Magic Hat Digester</p> <p>Dinner - TBD</p>	<p><b>Location: TBD</b></p> <p><b>TBD:</b> BOG Meeting</p> <p>Possible Green Technology Expo/product Demonstration?</p> <p>Details still in the planning phase</p> <p>Annual year end BBQ</p>



turn to the experts™ 

## Chuck Kabrehl

V.P. Commercial Sales & Engineering  
ckabrehl@rjmurray.com

## Dan O'Connor

Commercial Sales Engineering  
doconnor@rjmurray.com

7 Northway Lane, Latham, NY 12110  
79 Holly Court, Williston, VT 05495  
**518-690-4455 518-690-4990 (f)**

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### **PRESIDENT'S MESSAGE** *(continued from page 1)*

the VTC student chapter of ASHRAE. After an early evening meal, the students will talk about their trip to the ASHRAE winter conference and AHR expo in Chicago. The student's will cap off the evening with a presentation on this year's student submission for the annual ASHRAE HVAC Student design competition.

Mark your calendars for a facility tour at Magic Hat Brewery on May 9 and we will finish the year with an exciting end of the year BBQ and Green Expo on June 6. Equipment vendors please see our flyer in this newsletter for more information on the June 6, 2012 Green Expo if you wish to participate. For more details and to sign up please contact Rob Ward at 802-655-8805 or robw@vhv.com on this first time event for ASHRAE CVC. We continue to have great attendance at our meetings so I applaud our membership for making the effort to support chapter events.

Please watch our website and future newsletter and emails for more information regarding these upcoming events.

The new and improved Champlain Valley Chapter website [www.ashraevt.org](http://www.ashraevt.org) is coming along nicely. We are continuing to make modifications and adjustments through our website committee. Please feel free to send any comments or ideas to me and I will pass them along to the website committee. I would like to encourage members to use the electronic RSVP available on the website to sign up for our monthly meetings. Remember signing up is necessary to allow us to coordinate head counts with VTC to make sure there is enough food for everyone.

Michael R. Cook



April 19, 2012 1:00 PM–4:00 PM EDT

# Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.



## Presenters



**Ron Jarnagin, 2011–12**  
ASHRAE President  
Staff Scientist | Pacific Northwest National Laboratory | Richland, WA



**Tim McGinn, PE., LEED AP**  
Principal | DIALOG | Calgary, AB, Canada



**Stan Mumma, Ph.D., PE.**  
Professor Emeritus | Pennsylvania State University | University Park, PA



**John Murphy, LEED AP**  
Applications Engineer | Trane | La Crosse, WI

### 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 may be awarded to viewers who complete the "Participant Reaction Form" by May 3, 2012.

Sponsored by:



Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at [www.ashrae.org/doaswebcast](http://www.ashrae.org/doaswebcast)



## TECHNOLOGY TRANSFER

Thank you to everyone that came out for our March meeting, we had another great turnout and two very informative presentations. Thanks to our ASHRAE Distinguished Lecturer Daniel H. Nall. He gave presentations on the new ASHRAE 50% Advanced Energy Design Guides for Small and Medium Office Buildings and For Medium and Big Box Retail and the ASHRAE bEQ program. Both were very well received.

Our April Meeting will be held at Vermont Technical College in Randolph, VT at the Judd Gymnasium on April 19th, 2012 starting at 1:00 PM. We will be showing live webcast of Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

After the webcast the VTC ASHRAE student Club will host a dinner and Report on their trip to the Chicago ASHRAE winter meeting and trade show. They will also give a presentation on their 2012 Student Design Competition projects.

Hope to see everyone on April 19th !

Tom Dacres



## STUDENT ACTIVITIES

VTC Chapter

Committee Chair: Shawn LaBelle  
 Student Chapter Advisor: Chris Reilly  
 Student Chapter President: Erin Fajans

I want to take the time to congratulate Erin Fajans who is our 2012 VTC ASHRAE Award recipient. Erin is currently the President of the Student ASHRAE Chapter at VTC. She will be receiving her award (\$500) during Vermont Technical College Honors Convocation held on Thursday April 12th in the Judd Gymnasium. The VTC ASHRAE Award is given to a student that shows excellence in HVAC system design or who is active in ASHRAE at the student and local chapter levels. This student is selected by the faculty of the VTC Architectural & Building Engineering Technology department. Again congratulations Erin!

Just a reminder the 2012 ASHRAE Champlain Valley Past President Memorial Scholarship due date is March 28th, 2012. Please make sure to have those submitted to Shawn LaBelle either through mail or email by the due date. The application is posted on our new website. The recipient of this scholarship will be selected during the wk of April 2nd and will received the award during VTC's Honors Convocation on Thursday April 12th.

Also a reminder that we will be holding April's meeting at Vermont Technical College in the Judd Gymnasium. We will be webcasting one of ASHRAE's webcasts "Dedicated Outdoor Air Systems: A path to Balancing Energy and IEQ" from 1pm-4pm on Thursday April 19th. More information on the broadcast is located on the ASHRAE website at [www.ashrae.org/doaswebcast](http://www.ashrae.org/doaswebcast). Dinner and student presentations will follow.

Thanks!  
 Shawn LaBelle

## MEMBERSHIP PROMOTION

Hello Champlain Valley Chapter and thanks to all who joined us for the March meeting. The DL provided two engaging topics, the Hampton provided an excellent meal and it was an overall success. I encourage everyone to check out the web page (<http://www.ashraevt.org/>) for details on the upcoming April meeting. It is going to be held at VTC and will include a broadcast of the ASHRAE “Dedicated outdoor air system – A Path to Balancing Energy and IEQ” Webcast. The webcast will start at 1:00 pm. This webcast has possible PDH, AIA, or LU credits available. It’s important to note that the April meeting will NOT be held on the first Wed of the month. It will instead be held on the 19th.

Be sure to mark your calendar for May 2nd. Our chapter meeting will be at Magic Hat brewery, and it is going to be our spring membership promotion meeting.

Nathan Mascolino

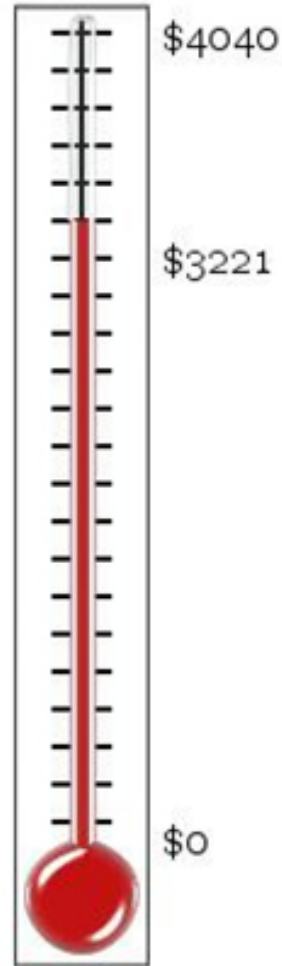
## TREASURE’S REPORT

Since our treasurer is on vacation I am reporting as of March 23, 2012, all bills paid and our TD Bank checking account balance is \$14,099.42.

Michael R. Cook, President

## RESEARCH PROMOTION

We are well on our way to reaching our fundraising goal for the year! Lets keep it up.



Thank you,  
Rob Ward  
RP Chair

*2011-12 Progress !!*

## LEADERSHIP QUOTE of the MONTH

**“All of the great leaders have had one characteristic in common: it was the willingness to confront unequivocally the major anxiety of their people in their time. This, and not much else, is the essence of leadership.”**

**~ John Kenneth Galbraith**



Champlain Valley Chapter

# Expo On Wheels Vendor Sign-up

Come and show off your latest Green Sustainable HVAC&R products Tailgate Style!



**June 6th 2012**

**Time: TBD**

**Location:**

**Champlain Valley Expo**

For details & to sign up contact  
**Rob Ward**

802-655-8805 ext.194

robw@vhv.com



**Bring Your:**

**-Demo Vehicles**

**-Trade show  
booths**

**Fee:**

**\$300 Per Spot**

**All profits go to  
ASHRAE Research  
Promotion**



## 2013 CRC COMMITTEE

CRC2013 committee report:

The CRC2013 committee (Chapters Regional Conference) met with two representatives from the Burlington Hilton on March 14 to go over the rooms we will be using and get more detail on what the hotel will provide and what ASHRAE has to provide. We also did a quick walk through of ECHO to go over where the tables for meals will be, where the speaker will stand, and other details. All of this planning will result in a detailed budget that we will use to determine all of our costs and what we can afford during the three day conference. Our next tasks are firming up the meals budgets, getting a first draft of the presentation that we will do at the end of CRC2012 in Boston, working on a webpage and Twitter account, planning the companion activities, planning AV needs and planning for tech session speakers.

The CRC2013 committee is currently Tom Zoller, Steve Poole, Dick Wilcox, Heather Smith, Mike Cook, Nathan Mascolino, Tom Dacres, Peter Bailey, Bill Atkinson, Shawn Labelle, and Gus Mastro.

If you are interested in joining the committee or helping out in any way, please let me know.

-Tom Zoller



Nathan Mascolino VHV  
 Dick Wilcox VHV  
 Rachael Mascolino Efficiency Vermont  
 Robert J. Favali DuBois & King, Inc  
 Peter Bailey Dodge Engineering Inc

### LAST MEETING MINUTES

Motion to approve February 2012 Meeting Minutes was made by Ken Secor

Seconded by Dick Wilcox; Motion carried.

### OFFICER REPORTS

#### A.) President: Michael R. Cook

a.) Mike discussed the status of the Nominating Committee. Pete Bailey gave an update as follows for the 2012-2013 term. It was noted that the names will be announced at this evening's meeting together the announcement that the floor remains open for nominations and that a vote will take place at the April meeting.

- 1) President: Tom Dacres
- 2) President-Elect: Nathan Mascolino
- 3) Vice President: Robert J. Favali
- 4) Treasurer: Peter Bailey
- 5) Secretary: Robert Ward
- 6) BOG Members: Joshua Chiappone, Dick Wilcox, Shawn LaBelle, Mike Cook, and Rachael Mascolino.
- 7) Chair Positions:
  1. Peter Bailey - Refrigeration
  2. Robert Ward - Research Promotion
  3. Rachael Mascolino - Electronic Communications

Information only; no action

b.) Mike led a discussion on the on-going status of the new website. Rachael provided an update. Information only; no action

c.) A discussion was carried regarding the purchasing of a stand-alone portable speech amplification system.

A motion was made by Ken Secor: "To authorize Pete Bailey to procure (1) "Go Speak Pro" portable amp system for a 30-day trial period at a not-to-exceed price of \$600.00."

Seconded by Dick Wilcox

## BOG MEETING MINUTES

March 7, 2012 BOG Meeting Minutes

Date: 03/07/2012  
 Location: Hampton Inn, Colchester VT  
 Time Called to Order: 4:06 pm  
 Called to Order By: Mike Cook  
 Minutes Recorded By: Robert J. Favali, Secretary

### ATTENDANTS

Mike Cook	ARC Mechanical
Ken Secor	KPS Consulting
Tom Dacres	VHV

Discussion followed and the question was called and a vote followed.

Carried

d.) Mike discussed the need to approve money for Tom Dacres to attend President elect training.

A motion was made by Ken Secor: "To provide a not-to-exceed amount of \$300.00 to cover expenses in order to send Tom Dacres to President-elect training."

Seconded by Nathan Mascolino; Carried

e.) Mike led a general discussion and reviewed the following items:

1) Reports and minutes need to be into Mike Cook and Cara Gorman by March 19, 2012.

2) Mike reminded that we need to continue to update of our PAOE (Presidential Award of Excellence) points (2,395 to date).

3) He noted that collections for Newsletter advertisements continue with approximately \$1,300.00 received to date.

4) No action on these items; for information only.

#### B.) President Elect- Tom Dacres – CTTC Chair

Tom gave an update on the status of upcoming meetings. The April meeting will be at VTC; the May meeting (Membership Meeting) will be at the Magic Hat Brewery; and the June "Tailgate" event will be at the Champlain Valley Expo.

No action on these items; for information only

#### C.) Vice President – Nathan Mascolino - Membership Chair

Nathan requested that the discussion of the May membership night be tabled until the April meeting. He also noted that the Membership Promotional Chair needs to attend the Centralized Training in Austin Texas. Once the Chair is selected, the training budget will be discussed.

No action on these items; for information only

#### D.) Treasurer – Ken Secor

Ken gave notice that he will be away for six weeks therefore he discussed the possibility of having Pete Bailey cover for him. Ken will provide a Treasurer's Report for the Newsletter prior to his vacation.

Mike Cook made a motion "to authorize Pete Bailey to perform the duties of Treasurer on a temporary basis during Ken's vacation."

Seconded by Robert J. Favali; Carried.

#### E.) Chapter Secretary – Rob Favali

Nothing new to report

#### F.) History – Gretchen Langfeldt

Nothing new to report

#### G.) Refrigeration – Peter Bailey

Pete discussed the Hill-Phoenix presentation scheduled for March 21, 2012. He noted that there are currently 27 reservations for the program.

#### H.) Student Activities – Shawn LaBelle

Shawn noted that the Scholarship notifications have been published with applications available on the Chapter's website. The award is given at the end of April with applications due March 21, 2012. Shawn also requested that a "student" link be established on the chapter's website.

No action on these items; for information only

#### I.) Research Promotion – Rob Ward

Tom Dacres provided an update in Rob's absence. He noted that we are at 80% of our RP Fund goal.

#### J.) CRC-2013 Update – Mike Cook

Mike Cook noted that the planning continues with good progress.

Old Business:

None

New Business:

Due to the April meeting being at Vermont Tech, the next BOG Meeting will be at the offices of Efficiency Vermont on April 11, 2012 at 4:30PM.

#### MEETING ADJOURNED

Motion to adjourn made by Tom Dacres

Seconded by Robert J. Favali

Motion carried

Meeting adjourned @ 5:25 PM

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

# GENERAL MEETING MINUTES

March 7, 2012

Date: 03/07/2012

Location: Hampton Inn, Colchester VT

Minutes Recorded By: Robert J. Favali, Secretary

## ATTENDANTS (41)

- Ray Hickey      Advanced Comfort Systems
- Mike Cook      ARC Mechanical
- John Whitebread      Buckley Associates
- Dan Duncan      Control Technologies
- Charles Verenneau      Control Technologies
- Len Pattison      Controls Technologies
- Chris Vintinner      Controls Technology
- Pete Bailey      Dodge Engineering
- Rob Favali      Dubois & King Inc
- Mike Spasyk      Dubois & King Inc
- Paul Duane      Efficiency Vermont
- Sheryl Graves      Efficiency Vermont
- Rachael Mascolino      Efficiency Vermont
- Mary Jane Poytner      Efficiency Vermont
- Steve Booth      Efficiency Vermont
- Joshua Chiappone      Johnson Controls
- Ken Secor      KPS Consulting
- Steve Kreigh      Mylan Technologies
- Brian Reilly      Pearson & Associates
- Pete Gagon      Thomas Associates
- Tom Zoller      Trane Company
- Tom Dacres      Vermont Heating & Ventilating
- Steve Poole      Vermont Heating & Ventilating
- Dick Wilcox      Vermont Heating & Ventilating
- Shawn LaBelle      Vermont Mechanical
- Phil Bresnahan      Vermont Mechanical Inc.
- Corey Griffiths      Vermont Mechanical Inc.
- Barbara      VTC Faculty
- Glenn Erb
- Donna Leban
- Peter Gibbs
- Paul Doaner

## TECH SESSION

The Tech Session was the first part of the Chapter's two session Distinguished Lecturer series. It was presented by Daniel H. Nall FAIA, PE, who gave a presentation on the ASHRAE's Advanced Energy Design Guides focusing on 50% savings over

ASHRAE 90.1 (2004) for small and medium offices. He also gave a brief overview of the other AEDG's that are published by ASHRAE.

## GENERAL MEETING AND MAIN PRESENTATION

During the meeting, Chapter President Mike Cook presented the names from the Nominating Committee for the 2012-2013 year. He also noted that nominations remain open for additional names. Also during this meeting, Mike presented Chapter awards of appreciation to Bill Atkinson, PE for his support of the Chapter's website and to Ray Hickey for his on-going support of chapter activities.

The second session of the Chapter's Distinguished Lecturer series was also presented by Daniel H. Nall who gave a presentation on the ASHRAE Building Energy Quotient (bEQ) labeling program. He explained the rationale behind the program, primary measurement requirements, methods for implementation and how it compares to other programs within the engineering community (LEED, Energy Star, and similar).

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





## Operation and Maintenance Guideline from ASHRAE Now Available

For Release:  
March 22, 2012

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

### Operation and Maintenance Guideline from ASHRAE Now Available

ATLANTA – A newly published guideline from ASHRAE gives facility managers and building operating staff a strong foundation on which to improve performance of all buildings.

ASHRAE Guideline 32-2012, Sustainable, High Performance Operation and Maintenance, provides guidance on optimizing operation and maintenance of buildings to achieve the lowest economic and environmental life cycle cost without sacrificing safety

or functionality.

“The guideline will assist those who operate and maintain buildings to achieve high performance: safe, productive indoor environments; low economic life cycle cost; low energy, water and resource use; and low impacts on the environment,” Michael Bobker, chair of the Guideline 32 committee. “The guideline applies to all buildings, not just new ones. We believe that all buildings can move toward sustainable high performance in their operations and maintenance.”

The guideline applies to the ongoing operational practices for buildings and systems with respect to energy efficiency, occupant comfort, indoor air quality, health and safety. These systems include the building envelope, HVAC&R, plumbing, complementary energy systems, and utilities and electrical systems.

“Modern air conditioning systems protect the health, comfort and productivity of building occupants,” ASHRAE Presidential Member Bill Harrison, whose presidential theme focused on the need for operation and maintenance, said. “Unfortunately, they consume a lot of energy while providing these benefits. When these systems are not operated properly, the energy



they use can increase by 50 percent or more. ASHRAE Guideline 32 helps building owners and managers evaluate and eliminate the wasted energy caused by poor operating procedures. The elimination of non-value producing energy helps protect our environment while saving the building owner money. Guideline 32 provides a no regrets path to improving energy efficiency in our buildings.”

The guideline contains recommendations for three levels of building oversight: senior managers, facility managers and technicians. Checklists for tracking that appropriate steps are being taken to move toward high-performance operation and maintenance are included for each.

Among the items on the checklist are:

#### Technicians

- Develop an HVAC system maintenance program using ANSI/ASHRAE/ACCA Standard 180, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems
- Maintain access and code required clearances to all HVAC and electrical equipment

#### Facility managers

- Develop and implement protocols for good facility/system documentation
- Establish performance baselines and targets. Institute a system for regular reporting and evaluation.

#### Senior managers

- Assess buildings, workforce, practices, management tools and systems
- Measure and report on building performance as part of regular business analytics

The cost of ASHRAE Guideline 32, Sustainable, High-Performance Operations and Maintenance, is \$69 (\$59, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)

## Building Labeling Program Helps Building Owners Save Energy

Mar 7, 2012

Amanda Dean

Public Relations

678-539-1216

[adean@ashrae.org](mailto:adean@ashrae.org)

ATLANTA— Energy use is one of the highest operating costs for building owners. It is also the most controllable. To help owners reduce their energy costs, a new building labeling program is available that not only rates buildings according to the in-operation energy use but also provides owners with suggested measures that can improve energy efficiency.

The Building Energy Quotient (bEQ) program assigns to buildings an energy usage quotient based on completion of an in-operation assessment that includes an ASHRAE Level I Energy Audit. ASHRAE, a building technology society with more than 50,000 members worldwide, is the developer of bEQ.

“bEQ lets a commercial building owner zero in on opportunities to lower building operating cost and make informed decisions to increase value,” Tom Phoenix, P.E., a consulting engineer in Greensboro, N.C., who chairs the bEQ committee, said. “The ultimate goal of the program is to encourage more energy efficient buildings and give owners more control over rising energy costs.”

The key component of the program is the in-operation assessment and the ASHRAE Level I Energy Audit, which serves as the industry standard for determining a building’s energy use and producing an actionable plan to improve building performance. To meet bEQ’s requirements, the assessment must be performed by an ASHRAE-Certified Building Energy Assessment Professional who will:

- Perform a walk-through survey to become familiar with building construction, equipment, operation and maintenance.

- Meet with the owner and operator to learn of special problems or planned improvements and operation or maintenance issues.
- Complete a space function analysis and determine whether efficiency may be affected by functions that differ from the original functional intent of the building.
- Identify low-cost/no-cost changes to the facility or to operations and maintenance procedures that will result from these changes with their approximate savings.
- Provide a summary of special problems or needs including possible revisions to operations and maintenance procedures.
- Recommend potential capital improvements and provide an estimate of potential costs and savings.

Registrants in the bEQ program receive:

- The bEQ In Operation Workbook of the complete building analysis.
- The bEQ Certificate presenting key building performance factors for operations staff.
- The bEQ Dashboard illustrating the level of In Operation performance.
- The bEQ Plaque showing the building rating for public display.

“The bEQ documentation provides data on actual energy use and other information that will allow owners to evaluate and reduce their buildings’ energy consumption,” Phoenix said. “When all the facts on a building’s energy use are known, an owner can make informed decisions to manage energy use.”

“bEQ demonstrates corporate responsibility to employees, tenants, investors and the public,” he said. “The certificate provides the necessary documentation to meet disclosure requirements for building and real estate transactions,” he added.

bEQ was introduced two years ago as a pilot program with the intent of providing an easily understood scale to convey a building’s energy use in comparison to similar buildings and climate zones, while also providing building

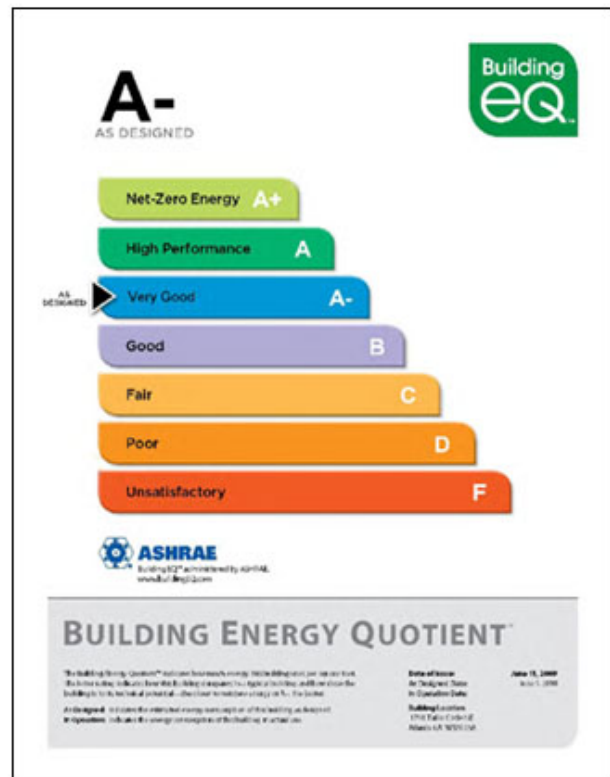
owners with building-specific information that highlights potential energy saving opportunities. Under the program, buildings are eligible to receive an In Operation rating as long as the building has at least 12 months of consecutive energy use data. The rating is based on the building and how it is operated.

“Information on a building’s energy use is the critical first step in making the necessary changes and choices to reduce energy use and costs,” Phoenix said.

The building also can display a plaque —much like a nutrition label or the miles per gallon rating for a car—with an easily understood rating scale to allow a comparison of the building’s energy use with similar buildings, as well as demonstrate the building owner’s commitment to energy efficiency.

Building energy use disclosure is already mandatory in California; Washington, D.C.; Austin, Texas; Washington State; the European Union; and Australia.

For more information, visit [www.buildingenergyquotient.com](http://www.buildingenergyquotient.com).





## 2011 CRC AWARDS

Here are the (12) awards the Champlain Valley Chapter received at the 2011-2012 CRC in New York City on August 18-20, 2011.

- ▶ Champlain Valley Full Circle
- ▶ Champlain Valley PAOE – Honor Roll, Special Citation – Shawn LaBelle President and Star
- ▶ Champlain Valley Sustainability Activities PAOE – Shawn LaBelle President
- ▶ Champlain Valley Runner Up Research Promotion (% of goal)
- ▶ 2008-2009 History – Amy K. Patenaude
- ▶ 2009-2010 History – Gretchen Langfeldt
- ▶ Certificate of Achievement, Recognition for Exceeding Goal – Sandra LaFlamme
- ▶ 2010-2011 ASHRAE Region 1 Outstanding Performance Research Promotion Honorable Mention – Sandra LaFlamme
- ▶ 2011 Chapter Service Award – Thomas W. Zoller
- ▶ 2010-2011 ASHRAE Region 1 Black Ink Award “The Champ” – Natasha Yaryna and Cara Gorman
- ▶ 2010-2011 ASHRAE Region 1 Best Student Design Competition, HVAC Design – Shawn LaBelle and VTC Student Chapter
- ▶ 2010-2011 ASHRAE Region 1 Outstanding Performance Chapter Programs Honorable Mention – Michael R. Cook

Congratulations to the efforts of the entire 2010 – 2011 Champlain Valley Chapter team including Of-

## 2011-2012 PRESIDENTIAL NEWSLETTER

2011 -2012 Presidential Award of Excellence (PAOE)  
2011-2012 PRESIDENTIAL NEWSLETTER

DATE: May 16, 2011 (revised July 7, 2011)

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: Ronald E. Jarnagin

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 HVAC&R community and a resource for the global community.

My Presidential theme, “Sustaining ASHRAE Through Leadership,” highlights the role ASHRAE members play as leaders in sustainable design and practices.

This marks the sixth 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 our daily decisions.

Several new activities have been added to support the presidential theme and they focus on Leadership, Training, Marketing, Young Engineers in ASHRAE (YEA), Building Energy Quotient (bEQ) and Refrigeration.

## 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](http://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	(2011-12)
Membership Promotion	800	115
Student Activities	500	470
Technology Transfer	850	450
Research & Promotion	1050	1015
History	300	0
Chapter Operations	600	345
<b>Chapter TOTAL</b>	<b>4100</b>	<b>2395</b>

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## 2011-2012 CHAPTER OFFICERS

<b>President</b>	Mike Cook T:(802) 291-0911 mcook@arcmech.com
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<b>Vice President</b>	Nathan Mascolino T:(802)655-8805 x.148 nathanm@vhv.com
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## COMMITTEE CHAIRPERSONS

<b>Student Activities</b>	Shawn LaBelle T:(802)862-5900 x.146 shawn.labelle@vtmechanical.com
<b>Membership</b>	Nathan Mascolino T:(802)655-8805 x.148 nathanm@vhv.com
<b>Research Promotion</b>	Robert Ward III, T:802-655-8805, robw@vhv.com
<b>Technology Transfer</b>	Tom Dacres T:(802) 318-3298 tomd@vhv.com
<b>Refrigeration</b>	Pete Bailey T: (802) 434-2278 pfbaily@deicontrols.com
<b>Historian</b>	Gretchen Langfeldt T: (802)651-4114 glangfel@hotmail.com
<b>Newsletter Editor/ Webmaster</b>	Cara Gorman T: (802)777-9813 cara@ashraevt.org
<b>2013 CRC</b>	Tom Zoller T: (802) 864-3816 x2 TZoller@trane.com

**Subscription to the newsletter and membership questions should be directed to Nathan Mascolino (802) 655-8805 or nathanm@vhv.com**

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**Brian Sager**

Vice President/Designer/LEED AP

[bsager@arcmech.com](mailto:bsager@arcmech.com)  
[www.arcmech.com](http://www.arcmech.com)

603-443-6111  
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Littleton, NH






**James D. LaVallee**  
Director of Business Development

**Vermont Mechanical Incorporated**  
P.O. Box 728  
Williston, Vermont 05495  
Phone: 802-862-5900 Ext.158  
Fax: 802-862-2219  
Jim.LaVallee@vtmechanical.com  
www.vtmechanical.com



**Thomas F. Dacres, Jr.** 16 Tigan St., Suite A, Winooski, VT 05404  
Design Engineer 802.655.8805 phone  
tomd@vhv.com ext. 152  
802.655.8809 fax



**Tom Zoller PE**  
Account Manager


175 Leroy Road  
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Cell: (802) 999-4282  
Phone: (802) 764-2200  
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