



THE CHAMP

monthly newsletter

of the Champlain Valley Chapter of ASHRAE

PRESIDENT'S MESSAGE



It's that time of year again when we can join together as an ASHRAE chapter to reconnect with colleagues and learn about advancements in all topics HVAC&R. Our September meeting

started off with a tour of the new STEM building at UVM, which was very well attended. The Newsletter serves as a summary of events and is filled with information relevant to you, including upcoming events both.

Since our September meeting is a tour, we have moved the presentation of the slate to October. After the swearing-in process, your ASHRAE chapter's officers will be:

- | | |
|-------------------------|------------------------|
| Chapter President | Blaine D. Conner |
| Chapter President Elect | Brent Weigel, PhD, PE |
| Chapter Vice President | Nicholas Thiltgen, PE |
| Chapter Treasurer | Jeremiah Trombly, PE |
| Chapter Secretary | Charlie Carpenter, EIT |
| Chapter BOG | Michael R Cook |
| Chapter BOG | Robert Favali |
| Chapter BOG | Shawn R LaBelle |
| Chapter BOG | Nathan D Mascolino |
| Chapter BOG | Rob Ward |
| Chapter BOG | Richard J Wilcox |

...continued on page 3

ASHRAE CVC UPCOMING EVENTS

October Chapter Event: Wednesday 10/5

Presentation: Tony Vale of Carel USA
"Humidification and Evaporative Cooling"

Presentation Details:

- The importance of humidification (Why Humidify).
- Types of Humidification - Isothermal & Adiabatic - Differences, Advantages.
- Direct & Indirect Evaporative Cooling - When, why & where do we do it
- **Discussion of the following concepts:**
 1. Adiabatic Process
 2. Water Atomizing Technologies
 3. Evaporative Cooling Applications
 4. Direct evaporative cooling performance
 5. Indirect evaporative cooling performance
 6. Temperature Control through evaporative cooling
 7. Evaporative cooling for AHU renovations

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ASHRAE CVC MEETING CALENDAR

MONTH	DAY	YEAR	LOCATION	EVENT
2016				
Aug.	5	2016	Williston GC	Golf Outing
Sep.	7	2016	Holiday Inn	Tech Tour & Dinner
Oct.	5	2016	Holiday Inn	Dinner & Tech
Nov.	2	2016	Holiday Inn	Dinner & Tech
Dec.	7	2016	Holiday Inn	Dinner & Tech
2017				
Jan.	11	2017	Holiday Inn	Joint AIA Webinar
Feb.	3	2017	Holiday Inn	Friday Lunch Meeting
Mar.	1	2017	Holiday Inn	Dinner & Tech
Apr.	5	2017	Holiday Inn	DL, Joint AIA
May	3	2017	Holiday Inn	Dinner & Tech
Jun.	7	2017	Essex FG	Tailgate Vendor Show

SEP-OCT 2016

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Those listed above, and all the others who contribute to our chapter through serving in committees, curating events and outings, and attending the monthly meetings are all part of what makes our Chapter strong. It is an honor and a privilege to serve as the Chapter president, and I look forward to a great ASHRAE year.

- *Blaine D. Conner*

ASHRAE CVC President 2016-17

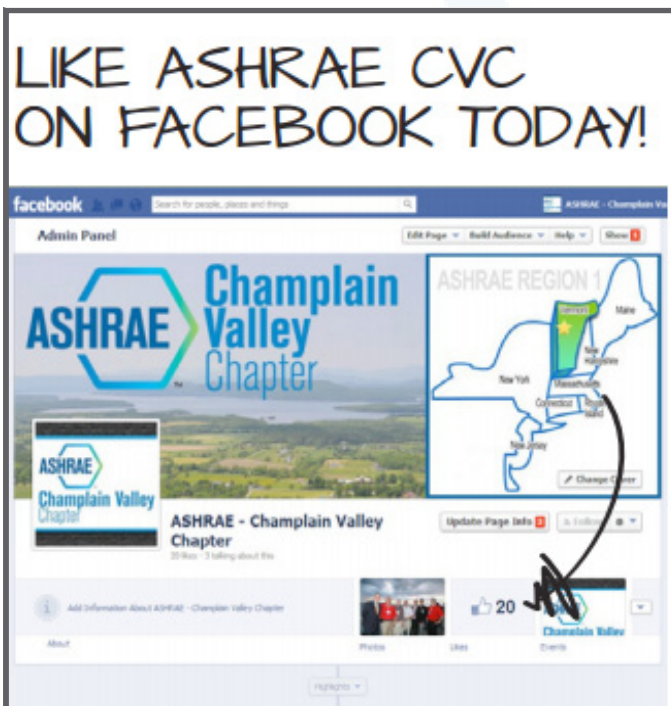
AUDIT REPORT

Our committee reviewed the 2015-2016 treasurers accounting on September 1, 2016 and found everything to be in good order. Bank statements and QuickBooks register match exactly each month. Jeremiah is doing a great job.

We will present the result of this audit at our next BOG meeting and enter it into the minutes.

- *Tom Zoller, PE*

ASHRAE CVC Audit Committee Chair 2016-17



GRASSROOTS GOVERNMENT AFFAIRS COMMITTEE

As we head into our Chapter's 2016-2017 season, you can't help but notice all the publicity related to the upcoming November's election, be it on the federal, state or local level. From here to November the mud is sure to be flying!

It has come to my attention that the American Society of Civil Engineers (ASCE) in New Jersey has procured the services of a lobbyist to push the Masters requirement for professional engineering license through their State legislation process. It is expected that the lobbyist will be presenting to the NJ Engineering Board in October, but it is possible that they bypass the board altogether and run right into legislation. I will be reaching out to the NJ Chapter GGAC Chair and offer my assistance as well as obtain other information that I can share with our Chapter members.

EB-5 Immigrant Investor Program

Last year we reported on the EB-5 scandal that involved the Jay Peak, Burke Mountain and ANC Bio project in Newport. Since that time, our Senator Patrick Leahy has pushed for federal reform on the EB-5 program, but the Senate is moving forward with an extension of the program as is and it appears that reforms to the program are unlikely. The deadline for the continuing resolution vote is Sept. 30. We will provide an update on the EB-5 status in the next month's newsletter.

US Federal Legislative & Regulatory Activities

Here are recent items that posted by reported by ASHRAE GGAC in the Washington office:

- US House of Representatives Passes

Bipartisan Legislation to Improve Workforce Preparedness

- EPA Acting Assistant Administrator for the Office of Air and Radiation Speaks on the Federal Government’s Role in Indoor Air Quality at IAQ 2016 Conference
- Deadline Extended for Comments on Design Details for EPA’s Clean Energy Incentive Program
- DOE Issues Supplemental Notice of Proposed Rulemaking for Consumer and Commercial Water Heaters
- Pre-Publication Supplemental Proposed Rulemaking Issued by DOE on Amended Energy Conservation Standards for Certain Residential Furnaces
- ASHRAE Seeks Applicants for Engineering & Public Policy Internship

You may find details on the above information at the following website location:

<https://www.ashrae.org/government-affairs/government-affairs-updates>

State, Local and Regional News

Relatively quiet on our State Legislation front, but here are some topics that may be of interest to our members:

**Green Mountain Power
Hydro Elec. Plant Purchase**

Green Mountain Power (GMP) says it applied recently to the Public Service Board for approval to purchase 14 hydroelectric plants. The purchase, officials say, will boost the company’s hydropower portfolio by nearly 20 percent.

The utility is buying the power plants and two power supply contracts from multinational energy

giant Enel Green Power. Purchase of ten of the plants are outside of Vermont (located in Maine, New Hampshire and Massachusetts) and will likely require state approval, according to regulators.

The remaining four power stations to be purchased sit in Vermont rivers, near North Hartland, Newbury, Hartford and Barnet. According to spokeswoman Dorothy Schnure of GMP, the transaction will secure enough additional hydroelectric energy to power 21,000 homes.

**Dartmouth College
Gets \$80M Gift for Energy Institute**

Dartmouth College has received an \$80 million gift to create an energy institute to “prepare future generations of energy leaders” and advance understanding of the field.

The institute is expected to open in 2020.

– Dick Wilcox
ASHRAE CVC GGAC Chair

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www.blakeequip.com*

Date: 08/24/2016

Location: Vermont Mechanical, Williston, VT

Called to Order: 3:00 PM

Called to Order By: Blaine Conner

Minutes Recorded By: Charlie Carpenter

ATTENDANCE:

Name	Title	Organization	Present
Blaine Conner	President	VMI	x
Brent Weigel	President-Elect	Hallam	x
Nicholas Thiltgen	Vice President	VEIC	
Charlie Carpenter	Secretary	VEIC	x
Jeremiah Trombly	Treasurer	MAS	x
Nathan Mascolino	BOG Member	VHV Company	x
Rob Ward	BOG Member	VHV Company	x
Mike Cook	BOG Member	ARC Mechanical	x
Shawn Labelle	BOG Member	VHV Company	
Rob Favali	Member	Dubois & King	
Tom Zoller	Member	Trane Inc.	x

OFFICER'S REPORT

1. Presidents Training

- a. Blaine is planning to attend RP training – Society will cover
- b. Nate M. motioned to approve expenditures not to exceed \$200/day for Blaine to cover hotel/meal costs. Seconded by Jeremiah T. and passed.

2. Membership Promotion

- a. Need to fill the MP position. YEA members would be a good fit. Rob F. will ask staff members if any are interested.
- b. Nate M. motioned to approve expenditures not to exceed \$200/day for the selected MP chair to attend training. Seconded by Jeremiah T. and passed.
- c. Goal of selecting a co-chair for all committees this year.

3. **Chapter Technology Transfer – Brent**
 - a. Did the invitation for September tour of UVM STEM building reach all in email list? Some invites did not make it through firewalls or Spam filters.
 - b. Brent will look into ASHRAE alias address for sending future emails.
4. **Treasurer’s Report – Jerimiah**
 - a. Current Status – \$16,766.63 accounts reconciled
 - i. Tom Zoller and Pete Bailey will audit the books.
 - ii. Tax exempt form needs to be sent into IRS in November.
 - b. Need TD Bank card for Blaine and remove Rob Wards as approval.
5. **Website/Communications**
 - a. Rachael Mascolino is looking to pass off responsibilities. YEA members may be a good fit.
 - b. The CVC website was hacked over the summer.
 - i. New communications member will help with using StarChapter to manage website and its security.
 - ii. Specific website requirements from society need to be met.
6. **ASHRAE Sponsorships**
 - a. Nate M. thinks we should sponsor the Biomass event again this year. We can get a display table if there are volunteers to man it.
7. **Meeting Dates**
 - a. Brent W. is interested in more joint meetings with other local organizations.
 - i. Rob W. mentioned a potential joint meeting aboard a cruise boat. There was much interest among the group.
 - ii. Joint meeting with AIA on controls in high performance buildings in the works. PDH credits will be available if approved – can get thru approval thru PIE.
 - iii. VT Green Buildings is a potential partnership.
 - b. Contract is ready to sign with the Holiday Inn to continue monthly meetings.
 - c. Brent is looking into more tours instead of dinner CVC meetings.
 - i. Alchemist and Switchback were potential locations.
 - d. Presenters have been scheduled for Sep, Oct, Nov, & Apr and a Potential Society President visit for January.
 - i. Nate M. thinks BBD conference in Feb competes with CVC meeting. Lunch meeting scheduled currently to avoid conflict.

MOTION TO ADJORN

- a. A motion was made by Blaine C. to adjourn the meeting. It was seconded by Nathan M. and the motion was carried. The meeting adjourned at 4:15 pm
- b. Next meeting will be before Sep 7th UVM tour if necessary.

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

ASHRAE 90.1 NEWS



SEP-OCT 2016

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ATLANTA – When it comes to opportunities for professional development, networking and access to the latest technology, ASHRAE has stacked the deck in favor of its 2017 Winter Conference and AHR Expo taking place in Las Vegas.

The Conference dates are Jan. 28-Feb. 1 at Caesars Palace with the Expo being held Jan. 30-Feb. 1 at the Las Vegas Convention Center. The two events are expected to draw thousands of industry professionals from around the world, drawing on the record breaking attendance from the 2011 Conference and Expo held in Las Vegas for the first time.

To register for the Conference, which includes free access to the Expo, visit www.ashrae.org/lasvegas.

The Conference offers some 200 Professional Development Hours recognized by most U.S. states, AIA LUs and LEED AP credits through ASHRAE Learning Institute course and Technical Program sessions.

ASHRAE’s Technical Program raises the stakes in addressing the challenges faced today and in the future by industry professionals. Via eight tracks, the program attempts to bridge the gap between the design decisions made today that will impact the future. New tracks that address changes in technology include Water-Energy Nexus, Advances in Mission Critical Design and Operation, Climate Change and Its Effects on HVAC&R Design and Technologies, and Energy

Efficiency Industrial Buildings and Life Safety. The full program will be available later this month.

Twenty Professional Development Seminars and Short courses are offered by the ASHRAE Learning Institute. New courses include Cogeneration from the Basics through Construction and Operation, Complying with Standard 90.1-2016, Complying with the Requirements of Standard 62.1-2016, New ASHRAE-Classified Refrigerants to Meet Society’s Changing Needs, Variable Refrigerant Flow System Design and Application, Complying with Standard 90.1-2016 Appendix G, and Design of Affordable and Efficient Ground Source Heat Pumps.

Additionally, ASHRAE is offering two administrations of its six certification program exams, including its new Building Commissioning Professional (BCxP) certification developed with the goal of achieving U.S. Department of Energy (DOE) recognition by summer 2017. The other certifications are the ANSI-accredited Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP) and High-Performance Building Design Professional (HBDP) as well as the Healthcare Facility Design Professional (HFDP), and Operations & Performance Management Professional (OPMP).

The keynote speaker at the opening Plenary Session is Adam Steltzner, team lead and chief engineer for NASA’s Mars Rover, Curiosity. For 10 years, Steltzner led a team of engineers inventing, designing and testing the revolutionary “sky crane” landing system that successfully placed the rover on the Martian surface in 2012. Five times heavier than its predecessors, Curiosity required an entirely new landing system for the 7-minute phase when the one-ton rover—entering Martian atmosphere at 13,000 mph—must stop fully on the surface. To inspire attendees, Steltzner discusses the power of human curiosity and the importance of fostering a culture of collaborative innovation.



2016-2017 PRESIDENTIAL NEWSLETTER

DATE: July 2, 2016

TO: Chapter Presidents
ASHRAE Membership Promotion Committee
ASHRAE Student Activities Committee
ASHRAE Research Promotion Committee
ASHRAE Chapter Technology Transfer Committee
ASHRAE Grassroots Government Advocacy Committee
Young Engineers in ASHRAE Committee
Regional Historians
Region Members Council Representatives
Assistant Regional Chairs
Board of Directors

FROM: Timothy G. Wentz

A handwritten signature in blue ink that reads "Timothy G. Wentz". The signature is written in a cursive style and is positioned to the right of the printed name.

SUBJECT: PRESIDENTIAL AWARD OF EXCELLENCE (PAOE)

ASHRAE members and their chapters are the backbone of our Society and play a vital role in achieving its goals and mission. Through their collective efforts, ASHRAE chapters are the global driver of volunteer activity as we strive to meet our goal of shaping tomorrow's built environment.

Our theme for 2016 – 2017, 'Adapt Today to Shape Tomorrow', focuses on adapting ASHRAE's resources, investments and technology to energize our membership and empower our chapters. Through the theme's initiatives, ASHRAE will continue to build a worldwide network of innovative people and successful technologies to transform lives, organizations and communities. ASHRAE members have a tremendous passion for our mission, which this year's theme builds upon to produce an environment of excellence driven by the power of adaptation. Our ability to shape tomorrow is borne by our willingness to adapt today, which is the driving force behind our theme and is incorporated into this year's PAOE program.

There are seven categories included in this year's PAOE: Chapter Operations, Chapter Technology Transfer, Grassroots Government Advocacy, Historical, Membership Promotion, Research Promotion, and Student Activities. To achieve PAOE, the chapter must earn the minimum points in five of the following six categories: Chapter Operations, Chapter Technology Transfer, Grassroots Government Advocacy, 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, consult the PAOE Frequently Asked Questions (FAQ) section on the ASHRAE website. Please note that appropriate documentation must 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 the dedication, enthusiasm and hard work you bring to our Society. I look forward to working with you during the coming year to shape tomorrow and create a more sustainable world.



Shaping Tomorrow's
Built Environment Today

THE E.K. CAMPBELL AWARD

This annual award is given to a current ASHRAE member in good standing who is associated with an institution of learning and teaches courses or conducts research in heating, ventilating, air-conditioning or refrigeration at the graduate and/or undergraduate level in an engineering or engineering technology program accredited by the Accreditation Board for Engineering and Technology (ABET) or accredited engineering program in other countries that are signatories to the Washington Accord, The Sydney Accord and the Dublin Accord international agreements among bodies responsible for accrediting engineering programs.

The award, funded by contributions from individual members of the Life Members Club (LMC), consists of a plaque and an honorarium for \$10,000. The plaque is presented during the Plenary Session of the ASHRAE Winter Conference and the honorarium is presented at the LMC Luncheon on the following Tuesday when the recipient is requested to make a presentation. Attendance at both events is mandatory.

NOMINATION PROCESS & DEADLINES

Nominations are made by the LMC Awards Subcommittee and approved by the Executive Committee of the Life Members Club and ultimately ASHRAE Board of Directions.

The time between first receipt by the LMC Awards Committee of a candidate's credentials and his or her possible nomination to the ASHRAE Honors & Awards Committee is typically two or more years.

The LMC Awards Committee will receive recommendations for nomination from individual ASHRAE members, including ASHRAE Chapter Student Activities Chairs where there are active ASHRAE Student Branches.

A recommendation letter indicating the achievements that make the nominee a particularly outstanding candidate should be submitted to the ASHRAE Staff LMC Liaison, Megan Hezlep, mhezlep@ashrae.org.

Along with a letter of recommendation, the following support documentation should also be included.

- Letters from Department Heads or Deans and associates or colleagues familiar with the candidate's achievements and teaching. Three or more such letters are preferred.
- A copy of the candidate's up-to-date ASHRAE Biographical Form (please contact your local ASHRAE Chapter or ASHRAE staff if you need help with this form). This is the official ASHRAE Bio form. Resumes/CVs are not accepted in lieu of the Bio form.
- A list of the candidate's publications. This may be part of the ASHRAE Bio or expanded into a separate attachment.
- Other materials, as desired, which reinforce the candidate's stature as an outstanding Candidate for the E.K. Campbell Award.
- Special consideration is given in regard to:
 - Years of ASHRAE Membership & involvement on Chapter and Regional Positions
 - Years of involvement with the ASHRAE Student Branch
 - ABET evaluator
 - Other education activities (Solar decathlon, etc.).
 - ASHRAE research activities (service on TC's, SPC's, SSPC's, TG's, RAC, TAC, etc.).
 - Other research activities (publications, patents, etc.).

DEADLINE FOR SUBMISSION IS:

2016-17 Nominee: Mid-December. For the exact date, please contact the Staff Liaison below.

Questions? Please contact ASHRAE Staff LMC Liaison, Megan Hezlep, mhezlep@ashrae.org

ASHRAE CHAMPLAIN VALLEY CHAPTER PAST PRESIDENTS RECOGNITION PAGE

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Order	Society Year Served	Name	Order	Society Year Served	Name
1	1969-70	William Lotz, PE	25	1993-94	Jon A. Soter, PE
2	1970-71	Robert Miller	26	1994-95	Leo Ioannou
3	1971-72	Richard Bowler Jr., PE	27	1995-96	Michael A. Gallo, PE
4	1972-73	Robert Coughlin	28	1996-97	Steve Poole
5	1973-74	Don Johnson	29	1997-98	Michael Rose
6	1974-75	Gordon W. Root, Sr., PE	30	1998-99	Leo Ioannou
7	1975-76	Jack Couture, PE	31	1999-2000	Ken Couture
8	1976-77	Giustino N. Mastro, PE	32	2000-01	Peter Tousley
9	1977-78	Neil Vallencourt, PE	33	2001-02	Russ Pratt, PE
10	1978-79	William Moore, PE	34	2002-03	Amy (Cota) Patenaude, PE
11	1979-80	Oscar Blatchly, PE	35	2003-04	David Anderson
12	1980-81	Stuart N. King	36	2004-05	Tom Zoller, PE
13	1981-82	Andrew Rudin, PE	37	2005-06	Bill Atkinson, PE
14	1982-83	Ted Meade, PE	38	2006-07	Jay Pilliod
15	1983-84	William A. Fyfe, PE	39	2007-08	Jerry Chabot, PE
16	1984-85	Edward Seraydarin	40	2008-09	Heather Condon
17	1985-86	Roger M. Kerr	41	2009-10	Peter F. Bailey
18	1986-87	Lois Root	42	2010-11	Shawn LaBelle, PE
19	1987-88	Mike Poirer	43	2011-12	Michael R. Cook
20	1988-89	Thomas Wolfstitch	44	2012-13	Thomas F. Dacres, Jr.
21	1989-90	Bernard J. Young	45	2013-14	Nathan Mascolino, PE
22	1990-91	Edward E. Pearson, PE	46	2014-15	Robert J. Favali
23	1991-92	Gordon W. Root, Jr., PE	47	2015-16	Rob Ward
24	1992-93	Richard J. Wilcox	48	2016-17	Blaine D. Conner



Chapter Past Presidents with Tom Phoenix & Joe Furman

GENERAL MEETING

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 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	2016-2017
Membership Promotion	800	0
Student Activities	500	0
Technology Transfer	1050	0
Research & Promotion	1050	0
History	300	0
Grassroots Government Activities	650	0
Chapter Operations	1050	0
Chapter TOTAL	5400	0

2014-2015 BOARD OF GOVERNORS

Richard Wilcox, LEED AP T: (802) 655-8805 x 181 dwilcox@vhv.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
Nathan Mascolino T: 802-861-6148 nathanm@vhv.com	

2014-2015 CHAPTER OFFICERS

President	Robert J. Favali, LEED Green Associate 802- 764-2704 rfavali@dubois-king.com
President-Elect	Robert Ward III, LEED AP 802-861- 6194 robw@vhv.com
Vice President	Christopher C. Lezak, PE 802-540-7842 clezak@veic.org
Secretary	Blaine Connor 802-264-1134 blaine.conner@vtmechanical.com
Treasurer	Peter Bailey 802-434-2278 pfbaily@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
Resource Promotion	Tom Zoller 802- 861-6194 robw@vhv.com
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Grassroots Gov't Activities	Richard Wilcox, LEED AP T: (802) 655-8805 x 181 dwilcox@vhv.com
Honors and Awards	Thomas Dacres, Jr., LEED AP BD+C T: (802) 861-6152 tomd@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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Glenn R Thomas
PE, CxA, LEED AP
Principal

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