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



PRESIDENT'S MESSAGE



Fall is upon us and the new ASHRAE chapter year has started. We are off to an exciting start beginning with our September meeting that included the presentation of the Lynn G. Bellenger Scholarship, the presentation of our

CRC Chapter awards, and the swearing in of the new chapter officers and Board of Governors. Within this Newsletter you will find summaries of these events.

The September meeting provided the format for our past president, Nathan Mascolino, to hand over the gavel to me. I want to personally thank him and the full Board for the accomplishments of the past year. We had a good year with strong attendance, good meetings, and a carefully managed budget. Please take the time to thank Nathan when you see him.

Your Board of Governors (BOG) was sworn in at the September meeting and our work has begun. You board members are as follows:

ASHRAE CVC UPCOMING EVENTS

OCTOBER CHAPTER MEETING

Nick Thiltgen will discuss energy use in today's commercial buildings. He'll review United States and Vermont energy trends, energy use breakout, and energy performance of various buildings. Looking forward, how can more buildings use less energy and emit fewer greenhouse gases? Nick will explain Efficiency Vermont's New Construction offerings and their support for net zero commercial construction. He'll share the details of Efficiency Vermont's Net Zero Pilot Program.

Meeting Agenda: 5:00 Social hour 6:00 Chapter Business 6:15 Dinner 7:00 – 8:00 Presentation

RSVP: http://www.ashraevt.org/meeting-rsvp/

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2014-2015 ASHRAE CVC MEETING CALENDAR

MONITU	MONTHLY MEETINGS			
MONTH	BOG	DINNER	MONTHLY MEETING LOCATION	
2014				
September	3-Sep	3-Sep	Hampton Inn, Colchester	
October	1-Oct	1-Oct	Hampton Inn, Colchester	
November	5-Nov	5-Nov	Hampton Inn, Colchester	
December	3-Dec	3-Dec	Hampton Inn, Colchester	
		1	2015	
January	7-Jan	7-Jan	Hampton Inn, Colchester	
February	2-Feb	2-Feb	February Lunch Meeting and Tour	
March	4-Mar	4-Mar	Hampton Inn, Colchester	
April	1-Apr	1-Apr	Hampton Inn, Colchester	
May 6-May		6-May	Hampton Inn, Colchester	
June	3-Jun	3-Jun	TBD	





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)

Visit www.RJMurray.com for product info, what's new and employment opportunities.

Chapter Secretary Blaine Connor Chapter BOG Michael R Cook Chapter BOG Shawn R LaBelle Chapter BOG Rachael Mascolino Chapter BOG Rachael Mascolino

Along with the work of the BOG, the Chapter has a series of committees that produce the majority of our monthly work. Each committee has a chair. These individuals volunteer their time for the promotion of ASHRAE, its efforts, and commitments. I should also add here, that there is always room for help so if one of these committees interests you, please let me know. The committee chairs are as follows:

Chapter Refrigeration Chair Peter F Bailey **Chapter Membership Promotion Chair** Josh Chiappone **Chapter Student Activities Chair** Shawn R LaBelle **Chapter Electronic Comm. Chair** Rachael Mascolino **Chapter Technology Transfer Chair** Robert Nelson Ward, III **Chapter Grassroots Gov't Activities Chair** Richard J Wilcox **Chapter Resource Promotion Chair** Tom Zoller **Chapter Historian** Michael R Cook **Chapter Honors and Awards** Thomas F Dacres, Jr

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By the way, Happy 45! This year the chapter is celebrating its 45th year. I am honored to be your president for this milestone and we trust the year's lineup will sustain the great history this Chapter has created. We are planning a Past President's Night for later this year as a way to showcase and to thank the individuals who have worked so hard to make this a great chapter. I get to stand on the shoulders of these volunteers. Thank you.

Finally, thanks to the folks who pulled the Golf Outing together last August. Tom Zoller offered to take my place at the putting contest which allowed me to go play (thanks Tom!). Weather was good, food was good, and as usual my team scored better in the laugher category then in the points.

October looks good as does the rest of the year. I look forward to seeing you at the next meeting.

Rob Favali ASHRAE CVC President



TECHNOLOGY TRANSFER

The 2014/15 CTTC committee is in place and we are working to finalize the line-up for all of our meetings this year. We have some very exciting presentations on the list. If anyone has any interest in sitting on the committee, or if anyone has any input or suggestions for future meetings I invite you to get in touch with me. My email is robw@vhv.com or I can be reached by phone at 1-802-861-6194.

The September (kick off) meeting went pretty well. We had 34 people in attendance for a meeting where we swore in our new chapter officers, presented a prestigious award to Courtney Hart, and got to a presentation on a relatively new technology that could save building owners lots of money in damages from water and replacing coils. For those of you that couldn't make it, Bob Cooney of Cooney Coil & Energy presented on a technology that prevents coils from bursting in the event that they become frozen. I was happy to see the healthy mix of students, contractors, consultants, and vendors. I hope that we can keep the momentum up in the next couple of months as we settle into this ASHRAE year.

In October we will be hosting a couple of individuals from Efficiency Vermont. The topic will be "Commercial Energy Efficiency in Vermont Today: New Codes and Efficiency Vermont Programs for 2015". Keep an eye out for the meeting announcement later this month. And if you haven't already done so, please take a moment to fill out the evaluation survey for September's meeting.

Thanks and we hope to see you on October 1st.

ATTENDEES AT THE SEPTEMBER MEETING:

Michael VanHorn	Control Technologies
Jason Hudspath	Thermal Environment Sales
Ray Hickey	ACS
Steve Kreigh	Mylan
Rob Favali	DuBois & King Inc.
Gwendolen St. Sauveur	DuBois & King
Joseph Kazukenus	Thermal Environment Sales
Mike Spasyk	DuBois & King
Peter Bailey	DEI
Nathan Mascolino	VHV
Jeremy Rathbun	DuBois and King
Tom Zoller	Trane
Jay Pilliod	Efficiency Vermont
Esther Covey	Blodgett Supply Company
Scott Sabol	Vermont Technical College
Dick Wilcox	VHV
Chris Reilly	Vermont Tech
Rob Ward	VHV
Courtney Hart	Vermont Tech Student
Steve Piccolo	Advantix Systems
Andy Bernhart	Advantix Systems
Louis Kiefer IV	UVM
Shawn LaBelle	VHV
Josh Chiappone	Johnson Controls
Tom Paquet	DuBois & King
Kellen LaPerle	Vermont Tech
Amanda Rochon	Vermont Tech
Carmine DeFeo	Guy DeFeo Company Inc
Steve Dumas	D&K
Louis Kiefer IV	University of Vermont
Blaine Conner	Vermont Mechanical Inc.
Ray Spears	Trane
Martha Soule Holden	VHV
Mary Jane Poynter	VEIC

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Rob Ward CTT Chair

GRASSROOTS GOVERNMENT AFFAIRS COMMITTEE

Ready.....set..... and go!! Our Committee is off and running again this year.

I kicked off the year by attending the ASHRAE Region I CRC held in Tarrytown, NY which was hosted by the Bi-State Chapter. As part of this Conference, I attended the Grassroots Government Affairs Committee (GGAC) workshop on Saturday 8/16/2014. The information for this workshop was presented by our Region I Chair, Richard Vehlow, and it allowed me to brush up on the requirements for our Chapter GGAC responsibilities.

Masters or Equivalent Update (MOE)

Our Committee attended the Vermont Board of P.E. open meeting on August 7, 2014, at which time State Representative Robert Krebs reviewed his letter with the Board regarding the MOE as a potential requirement for P.E. licensure in the State of Vermont. There was a bit of discussion between the board members and Robert Krebs, but no action was taken by the board at that time. It was Bob's intent to seek endorsement of the Vermont Board of P.E. for the MOE as part of P.E. licensing requirement.

On August 20-23, 2014, the National Council of Examiners for Engineering and Surveying (NCEES) conducted their annual meeting which was conducted this year in Seattle, Washington. It was at this meeting that the engineering and surveying licensing boards that make up NCEES voted to modify the approach to requiring additional education for initial engineering licensure by removing specific language in the NCEES Model Law and Model Rules, originally intended to be effective in 2020. As part of the vote, annual meeting delegates decided to develop an official NCEES position statement that supports additional engineering education beyond a bachelor's degree in lieu of making it a requirement within the Model Law. The latest decision means that in 2020 the NCEES Model Law and Model Rules will continue to require an engineering bachelor's degree from an EAC/ABET-accredited program to fulfill the education requirement for engineering licensure.

Regardless of the outcome of the changes by NCEES, it is up to each State to develop their own specific requirements for their P.E licensure within their State. A State could adopt the provisions of the NCEES Model Law, the NCEES position on MOE, or form their own requirements. Although the action taken at the NCEES annual meeting may have dampened Bob Krebs spirits, it appears that Bob will be pushing hard to get the MOE adopted in the State of Vermont. There will be definitely more to follow on this issue.

ACT 250 Update

Earlier this year our committee reported on the change in submission requirements associated with ACT 250 Land Use permit application. Our report focused on Criterion section 9F "Energy Conservation" as it relates to submission requirements for a ComCheck report (see December 2013 newsletter GGAC report). Also, as part of Criterion 9F, there is a requirement that identifies that the project shall demonstrate that it incorporates the best available technology for energy efficiency. (see the following link for the ACT 250 application form Criterion: http://www.nrb.state.vt.us/lup/publications/appform1.pdf)

We contacted the State of Vermont Natural

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Resources Board (NRB) which is the governing body that is responsible for administration the ACT 250 Land Use Law. We spoke with Ron Shems; the Chair of the NRB, and asked if he could expand on what information is anticipated to be submitted with the application to satisfy the requirement for "best available technology". He agreed that this is a rather vague requirement that has been set, and all information submitted on ACT 250 applications are currently being reviewed on a case by case basis. What Mr. Shems did offer is that the board is considering adoption of a "Stretch Code" to satisfy this requirement and that a change in the application form can be expected. Mr. Shem's crystal ball indicates that this could happen by the end of this year.

Our Committee will keep close contact with the NRB and update our members as information becomes available. Until then.....enjoy what is left of the summer weather!!

Dick Wilcox GGAC Chair

STUDENT ACTIVITIES

VTC Chapter

Committee Chair: Shawn LaBelle Student Chapter Advisor: Chris Reilly Student Chapter President: Courtney Hart

First off I would like to take the time to congratulate Courtney Hart. She is this year's recipient of the Lynn G. Bellenger Engineering Technology Scholarship for 2014-2015. This is an ASHRAE Society level scholarship offered to all students worldwide. Courtney is the second recipient in ASHRAE's Region 1 to receive this scholarship. This is a HUGE achievement. Courtney is a senior at VTC in the Architectural Engineering Technology Program and this year's student chapter president. See the separate write-up in this Newsletter.

Also another huge accomplishment for the Vermont Technical College Architectural Engineering Technology Program is they secured 3rd Place in the 2014 Design Calculations Section of the ASHRAE Student Design Competition. This is the second year in a row that they have finished in the top 3 at a National Level.

We want to thank Scott Sabol, P.E, Chris Reilly, P.E and Mark Vincello, P.E. for aiding the students in their 2014 ASHRAE Student Design Submission. The following are the students that will be receiving the 3rd place award:

Tyler Gendron

May 2014; BS Architectural Engineering Technology

Constantin Condrat,

May 2014; BS Architectural Engineering Technology

Stephen Wichmann Jr.

December 2014; BS Architectural Engineering Technology

As always the VTC Student ASHRAE Chapter is off to a strong start this year. This seems to be a great repeating routine from year to year.

Thanks! Shawn LaBelle PE



RESOURCE PROMOTION

Rob Favali has asked me to be the Research Promotion chair for the 2014-15 year. I want to take a minute and thank Rob Ward for all the hard work he has put in the past few years. He has really raised the bar for our fundraising goals and used some innovative new events to raise those funds.

I will be in Chicago for centralized RP chair training in September. I hope to come back with a lot of new ideas for the RP committee.

If anyone would like to join the RP committee, just let me know. RP has a minimal time commitment and can be a good way to get to know other members.

Please go to https://www.ashrae.org/standardsresearch--technology/research-promotion and click on "Online contribution Form" to make a donation on the secure servers. The chapter gets extra points this year if we reach certain early donation goals. And remember that RP donations are fully tax deductible.

Feel free to contact me with any questions at tzoller@trane.com

Tom Zoller, PE RP Chair

TREASURE'S REPORT

Welcome back all:

Hope everyone had a great summer? It certainly seemed to fly by fast.

As of September 12, 2014 our TD Bank account is \$15,189.87 and our bills are paid up to date with our ASHRAE CVC account reconciled.

By the end of October – I will be sending out our 2014 -2015 year's newsletter advertising invoices to our supporting Companies that advertise in our monthly newsletter. We very much appreciate everyone's support as all monies that are collected, are directly used for our Scholarship Programs.

Last year our Chapter was able to give out \$2,500.00 in Scholarships thanks to the companies that are advertising! Thanks to your support.

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 2014 - 2015

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Here Today, Here Tomorrow

What is an endowment and why is it important to ASHRAE?

Don't think of an endowment as merely an investment account. Think of an endowment as a "Gift to the Future." ASHRAE Foundation's endowment insures that its donor's gifts will support the long-term continuity and sustainability of ASHRAE and the multiple initiatives supported by the Foundation. These gifts in the form of the endowments provide a permanent source of income to support the education, research, and public service missions of ASHRAE. These endowed gifts are managed for the long-term to strike a balance between the competing demands of funding current initiatives and preserving purchasing power to fund future operations.

The source of nearly all the Foundation's endowment has come from gifts from generous ASHRAE members with an eye on the future. Many of these donors restrict their gifts to a specific purpose such as scholarships for training engineers or other restrictions that reflect the donor's priorities. Some donors provide unrestricted gifts that enable the ASHRAE Foundation to provide support for future needs that may not be obvious today.

In the past, gifts placed in endowment were limited to distributing only their net income for charitable purposes. The law governing these gifts has been updated to allow investment managers to invest for total return instead of just income. That means the spending power of your gifts are strong and the principal can grow to meet future needs. Since its founding 20 years ago, the ASHRAE Foundation has annually authorized a 5% distribution to support the purposes of the various funds.

Why do endowments matter to the average ASHRAE member?

Creating your Gift to the Future allows you to continue to give far into the future. Let's say you give an annual gift or \$1,000 to the RP campaign. If you establish an endowed fund, either now or from your estate, of \$20,000 your fund will continue to make a \$1,000 gift to support RP in perpetuity. Also, when your endowment fund grows in excess of its annual distribution, your principal increases and future distributions can grow as well

How can I make a Gift to the Future?

Endowed funds can be established now so that you can create a fund to support an ASHRAE initiative of interest to you. All it takes is a simple agreement describing your intentions. The minimum amount for an endowed scholarship is \$100,000. The minimum for an RP endowment is \$3,000. You can also create an endowment as part of your estate plans or add to an existing endowed fund from part of the generosity of your estate.

If you would like more information on how you can leave a legacy for the ASHRAE Foundation, please contact Margaret Smith at msmith@ashrae.org, tel: 678-539-1201.

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BOG MEETING MINUTES

September 3, 2014 BOG Meeting Minutes

Date: 9/3/2014 Location: Hampton Inn, Colchester, VT Time Called to Order: 4:00pm Called to Order By: Rob Favali Minutes Recorded By: Blaine Conner

ATTENDANTS

Nathan Mascolino	VHV		
Rob Favali	Dubois &	King	
Peter Bailey	Dodge	Engineering	and
Controls			
Rob Ward	VHV		
Shawn Labelle	VHV		
Mike Cook	ARC Mech	hanical	
Cody Lezak	VEIC		
Jerimiah Trombly MAS			
Josh Chiappone JC	I		
Dick Wilcox	VHV		

LAST MEETING MINUTES

No meeting minutes from last meeting to be approved.

OFFICER REPORTS

1. Secretary – Blaine Conner

a. No items to report

2. President – Rob Favali

a. Rob F. discussed the budget from '13-'14.

b. CRC was good – chapter ended up 4th place, behind Boston, NYC, and Long Island. D&K

covered all associated trip costs for Rob F.

c. Various awards received by the chapter will be listed at the meeting this evening.

d. Discussion on the difference between the members that are general chapter members and those who are "due paying" members to the national chapter. Rob F. & Josh are interested in increasing the amount of dues-paying members. The national list shows about 100 dues paying members.

e. Josh to verify the dues-paying members and bring report to next meeting.

f. Discussion on the meals contract. Nathan stated that historically CVC would pay either the amount requested or more. Dinner price has increased, so making sure that counts are accurate will be important. At this point, it's unclear if CVC will break even on the meal costs. One option could be to raise prices to \$35 for all.

g. The newsletter was discussed. Rob F. has been in contact with Cara for the September newsletter

h. Rob F. requested that the materials for the newsletter get to Rob F. by the middle of the month. Mike & Pete have already submitted materials to Rob F. for inclusion in the newsletter.

i. The newsletter was discussed. Rob F. has been in contact with Cara for the September newsletter.

j. Rob. F to work with Cara to make corrections on the website.

k. PAOE Updated: CVC did well for the year. Rob

F. reminded the BOG to keep their sheets updated.

I. Survey Monkey – how to execute with Rachel gone. Nathan M. to work with Rob W. to make sure that the reporting can be done.

m. Rob F. to email Rachael M. to clean up the google drive.

n. President's Visit – He is coming to Boston in January. May affect meeting schedule, but would be a good opportunity for the Chapter.

<u>3. Treasurer – Peter Bailey</u>

a. Pete gave a financial update Chapter.

- b. An income and expense report was distributed i. Last year the CVC was up \$641 income over expenses.
 - ii. Current account balance is \$13,837

c. Pete B. asked why RP was not showing up in the report. It was clarified that it was due to RP being a national level.

d. The 50/50 raffle comes through as a donation from Trane.

e. Monies from golf tournament – Pete is not aware of the totals yet.

f. RP income line item came from the June tailgate event.

g. Rob F. / Pete to work on a better snapshot of the expenses.

h. Rob F. suggested that coming up with categories and assigning a dollar amount to those categories to help refine the budget.

i. Budget to be discussed in further detail at the November meeting.

4. Research Promotion – Tom Zoller

a. Nathan motions to send Tom to Chicago for RP training with a stipend of \$700.00 not to exceed. Cody seconded and the motion was carried.

b. Research Promotion has now been changed to Resource Promotion at the national level, CVC to

mirror this change in future communications.

5. Events – Rob Ward

a. Spoke with Bob Cooney and confirmed that he was coming for tonight

b. Rob has speakers lined up for October and November.

c. On the proposed dates for this year's meetings. Shaun to confirm if VTC can hold the meeting in April. Rob F. suggested that perhaps the meeting could be moved to the Hampton if it would increase participation from Norwich and UVM.

d. May be able to do a tour at Norwich of the new Dorm building.

e. June volleyball fundraiser – Tom Z. to look into this.

f. Rob W. would like to increase the number of meetings that include CEU/PDH's.

g. Nathan M. suggested that a double-header that works for PDH's would draw a large crowd.

6. Josh Chiappone – Membership Promotion

a. Total membership – 139. Delinquent – 13, goes back until summer.

b Josh C. to verify the report of people who have paid up. Steve Sill is our contact person for helping with the reports.

c. Membership Promotion Night: Typically in the Fall and the Spring. November may be a good time to do this.

OLD BUSINESS:

None

NEW BUSINESS:

1. Tonight: Nathan to read the installation of the President, Officers, and BOG

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2. Schedule: Installations, CRC awards, the Student award (scholarship), Dinner, Speaker.

3. Rob W. will do the introduction (carry this forward for all the future speakers).

4. Mike C. elected to not do the 50/50 raffle.

5. Full circle Donation – Done online, \$100, due around November. Requirement is the chapter officers, but all BOG members are suggested to do it.

6. Tabled Items:

a. Budget: Rob to provide.

b. On agenda next week. Meeting fee/expense to be revisited.

c. On Agenda next week: 45th anniversary for the chapter. Mike C. may want to do some historical background/past presidents

d. Mike C. would like to discuss yearly summaries. Mike C. to provide Nathan M. with a sample. Mike needs it for Nathan M., Tom Dakers, and Shawn L.

e. Dick W. – submit expenses to Pete and it should be fully reimbursed. Region may reimburse for some funds.

f. Dick W. – Newsletter report to have a separate small article on the MOE

MEETING ADJOURNED

A motion was made by Dick Wilcox to adjourn the meeting. It was seconded by Mike Cook and the motion was carried. The meeting adjourned at 5:17 PM.

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



Nathan Mascolino was presented with the Society's Certificate of Appreciation for his work as Chapter President for 2013-2014.



Nathan Mascolino presents the Chapter's Charter and Gavel to in-coming 2014-15 Chapter President Rob Favali.

DO YOU KNOW RAY HICKEY? HE KNOWS YOU!

A Member Profile by Michael R. Cook, Chapter Historian 2014

When you attend a Champlain Valley Chapter monthly meeting there is a person who greets and signs you in, gives you your badge and always attempts to strike up a conversation with you. His name is Ray Hickey! You could say he is the welcoming face of our small but dedicated chapter. So who is this gregarious, funpoking, curiosity seeking person manning the reception table? Let's find out about this man who knows something about every person attending.



Ray welcoming a member to CVC with Harris at his side

Ray was born September 29, 1949 in Glens Falls, NY the fifth of six children raised by Bill and Harriet Hickey, the typical large family of rural America during the post WWII era. Glens Falls is a charming community in the Lake George region of the Adirondack park in upstate New York therefore Ray does not consider himself a "flat lander". He spent many a day working in Lake George in his youth. He received his Regents Diploma from Glens Falls High School in 1966. His first paying job at age 14 was working at his brother-in-law fathers' dairy in Warren County just 4 miles from home. This is where Ray's interest in refrigeration began. Dobert's dairy contained all types of refrigeration equipment including coolers, freezers, dispensers, chillers, refrigerated trucks and ice cream making units. Ray's job was to assist a seasoned service technician in servicing, repairing and maintaining all the refrigeration equipment associated with dairy operations. At this time most refrigeration equipment used CFC refrigerants but he remembers being exposed to ammonia based system at the Borden's plant. Working in the dairy cemented his lifelong interest in refrigeration as in his words "refrigeration is not boring".

Upon graduation from high school he attended Hudson Valley Community College (HVCC) receiving an A.A.S. in Air Conditioning and Refrigeration. Ray transferred to California Polytechnic to enroll in their Mechanical Engineering Department majoring in Environmental Engineering which was really HVAC at that time and minored in Air Pollution Control and Chemistry, graduating with a Bachelor of Science in Engineering in 1971. He selected Cal Poly because it was one of very few schools offering a Mechanical Engineering program with a HVAC concentration. During the time Ray was admitted to the school, a new program in Pollution Control was being offered so he chose to minor in that discipline thinking that it would increase the variety of employment opportunities when he graduated as well as career flexibility.

While attending HVCC Ray met his wife, Marianne who shared an apartment in the same building in Troy where Ray had an apartment. They were married in 1968 at the same time he was transferring to Cal Poly. Just to make their young lives together more eventful Ray was drafted by the Marines in 1969 but was a given a 1SC deferment until his graduation from college. Upon graduating from Cal Poly he was able to join the New York State National Guard, he was a member until he retired in 1995 but was placed on extended inactive service until 2007. His National Guard career carried him through the states of New York, Pennsylvania, and Ohio overlapping his citizen employment history with Sporlan Valve. He always assumed once he graduated from college that he would work for a large consulting engineering firm which was true of his first post college job working at Rist, Bright and Frost (RBF) in his home town Glens Falls, a multi-disciplinary firm (largely civil) of 300 people. He started out as a draftsman laying out and designing plumbing systems.

About one year into his employment at RBF the 1972 recession hit and since Ray was one of the last people hired; he was one of the first laid off. He took a transitional job designing hot water and hot air systems for high end designer homes for Northern Homes until he started working for William L. Jacobs & Sons, a manufacturer's representative for HVAC products. This was his first sales job which lasted two years when he was recruited by Sporlan Valve Company, a manufacturer of refrigeration components. He worked for Sporlan for 19 years with assignments all over the eastern United States including New York City, Philadelphia, Syracuse and Cincinnati calling on OEM's, wholesalers and contractors.

In 1989, the Hickey's gravitated back home to the Adirondacks, taking a position with R. L. Kistler another New York based HVAC products manufacturer's representative. In 2004 Ray began working for Advanced Comfort Systems (ACS) his current employer based in Ballston Spa, NY. ACS represents about 25 HVAC&R products several of which are one of a kind available through ACS only, allowing them to provide some unique energy solutions for their clients. They also carry some standard energy code compliant product lines for "value engineered" circumstances while their preference is to provide quality, energy efficient products requiring minimal maintenance with a long life cycle.

As stated earlier the Hickey's enjoy the Adirondack region, which is considered home for them and their seven children and thirteen grandchildren. Such a large family keeps Ray and Marianne quite busy and is quite a challenge getting them all together for family gatherings. The seven children were born in the various states where Ray was working at the time of their birth exhibited as follows, David (NY), Maria (Conn.), Christine (NY), Erin (PA.), Andrew (NY), Elizabeth (NY) and Daniel (Ohio) representing a 20 year

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age gap between the oldest and youngest children. Ray mentions that their first grandson will be graduating from high school this June. The Hickey family is proud of his acceptance at SUNY Potsdam where he will be attending on a lacrosse scholarship.

Outside of keeping tabs on his large family, Ray enjoys playing golf (12 handicap) in the summer and curling in the winter.



Recent Hickey family gathering (L to R). Dan, Andrew, David, Marianne, Ray, Maria, Lizz, Erin and Christine

For many years Ray has been a member of the CVC chapter "Golf Committee" with John Grout and Harris Unger which is our chapter's main event each year to raise funds for our chapter's operating budget. In addition to helping to organize our annual golf tournament, he also participates on his company's golf league, multiple business related tournaments and New York State Golf Association (NYSGA) amateur tournaments operated coincidentally by his son, Andrew. In the winter curling is his passion as he is a member of the Albany Curling Club and travels to Bonspiels (tournaments consisting of several games) throughout the area. Ray was introduced to curling by his twin sister who convinced him to join her mixed team, now he curls twice weekly. Curling is a sport played on a sheet of ice requiring much skill, strategy and good sportsmanship in placing your "stone" to a scoring position.

Ray has been involved with ASHRAE throughout his HVAC&R career since joining the Cal Poly student chapter in 1969 and has maintained a consistent membership except for a membership lapse in 1989 during one of his employment transitions however he re-joined in 1990 and has maintained his membership status continuously since. So for practical purposes he has been an ASHRAE member for 44 years (1969-2013) He currently maintains dual memberships, his primary home chapter is the Northeast Chapter based in Albany, NY and is a paid social member of our Champlain Valley Chapter (Vermont). Throughout the years Ray has

been elected or has served all officer and committee chair posts except the positions of President Elect and President. These appointments have involved the NYC Chapter, Philadelphia Chapter and Syracuse Chapter depending on where he resided throughout his professional career. In particular he has preferred serving the 'committee chair' positions including Research Chair three times. In addition to ASHRAE other trade associations he maintains memberships include RSES since 1974, AAE since 2004 and AFE from time to time.

Ray believes in ASHRAE and its programs especially its research activity in establishing the standards and guidelines for best practices and technological advances for our industry. He likes the fact our findings or standards are followed by other associated professions and adopted in codes. He understands that we must manage our natural resources and continue to develop more energy efficient and alternative energy sources to maintain our thermal comfort for our built environment in a sustainable fashion. He has become an advocate of energy efficient solutions and systems by acquiring more knowledge and sharing it through ASHRAE for the benefit of society. Over the years he has witnessed more energy efficient designs in both building and HVAC equipment and with ASHRAE progressively increasing the base efficiency of its standards such as ASHRAE Standard 90.1 2013 is 6% more efficient than the 2010 standard. ASHRAE has been good for our industry in pushing manufacturers to provide increasingly more energy efficient equipment, designers and builders to produce energy efficient buildings and assisting governments in updating building codes utilizing ASHRAE's energy standards, He hopes that ASHRAE will continue to be aggressive toward energy efficiency into the future as technology and our knowledge develops.

For the immediate future Ray expects to continue attending ASHRAE events in New York and his role as welcoming committee "chair" for our chapter. He finds it refreshing and relaxing to visit Vermont and participate in ASHRAE CVC sponsored events as we "have a strong attitude towards ASHRAE and the people are great to work with". Coming to Vermont once a month allows him to serve his business relationships in the area. He enjoys our camaraderie and spirit, it allows him to renew old acquaintances whom he has enjoyed working with throughout his northeast sales career and meet and get to know the new members. Vermont offers a different contrast to the Albany, New York area which has about 600,000 people while he states "Vermont as a state has 625,000 people and 628,000 cows" so it's a completely different experience.

His wife, Marianne tells him he can't retire as he is having too much fun trying to get people to accept new technologies that allow them to be more energy efficient. She will be retiring in four years so he might slow down then to spend more time visiting their children and grand- children in their various and warmer states like Virginia, Maryland, Colorado and California.

This article is a compilation of information from a combination of an email questionnaire, phone discussions and meetings with Ray Hickey in a time period of March 2014 to June 2014. Even though Ray has never served as a President of the CVC Chapter we acknowledge that he has and continues to contribute to its vitality through his continued membership, financial support through Advanced Comfort Systems, recommending meeting speakers and topics and readily providing assistance to the chapter Board of Governors. And finally he receives our appreciation for volunteering to be our chapters welcoming face each month.

the CHAMP

SEPT.

ASHRAE 90.1 NEWS

ATLANTA – Multiple compliance options to ensure verification of delivered building envelope performance are being proposed for the ASHRAE/ IES energy standard.

"Uncontrolled air leakage has long been an unquantified variable in load calculations for buildings large and small," Chris Mathis said. "It has also been identified as the 'weak link' in many otherwise well insulated building enclosures. These newly proposed envelope testing, inspection and verification procedures are intended to not only help deliver better performing building envelopes, but also should help reduce errors associated with envelope air leakage in equipment sizing calculations."

Addendum 1 is one of 14 proposed addenda to ANSI/ASHRAE/IES Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings, currently open for public comment. To comment or learn more, visit www.ashrae.org/ publicreviews.

"The addendum addresses several items of timely and critical importance to users," Mathis, a member of the 90.1 committee who helped to develop the proposal, said. "First, it seeks to clarify several inspection and performance verification items that have long been requirements of the standard, with the goal of improving delivered performance and code compliance. Secondly, the proposed addendum includes new language addressing important building envelope inspection and verification requirements, especially as they relate to controlling air leakage. The proposal provides for multiple compliance methods including whole building air leakage testing and continuous air barrier inspection and performance verification procedures."

Mathis notes that the proposed changes would likely have an impact on construction first costs.

"Data provided to the committee showed that the savings of these various approaches to envelope performance verification more than justify the potential increases in first cost," he said. "Additionally, the costs of the verification procedures will go down over time as builders become more familiar with envelope performance testing, inspection and other verification techniques and their construction practices improve due to the important feedback they will provide."

Building enclosure professionals are encouraged to carefully review the proposed changes and to offer their comments to assist ASHRAE in strengthening these important code compliance provisions, Mathis noted.

Other addenda open for public review from Sept. 5 until Oct. 5, 2014 are:

- *e* relaxes the existing threshold for lighting control alterations while capturing a lot of energy efficiency by requiring more of the control requirements.
- *f* clarifies an exception to the automatic daylight responsive controls requirements for daylight areas under skylights
- *j* removes an exception to the variable air volume system ventilation optimization when energy recovery ventilation is installed.
- *k* requires envelope assemblies to comply with Appendix A when complying with the Energy Cost Budget Method in Appendix G.
- *m* updates the text in Section 10.4.1 on electric



motors to provide information about the required efficiency of small electric motors shown in Tables 10.8-4 and 10.8-5. In addition, small electric motors were not included in the scope of the Energy Independence ad Security Act of 2007, but now have performance requirements and are being added to the standard.

- *n* updates the IEER values for air-cooled variable refrigerant flow air conditioners and heat pumps above 65,000 Btu/h. Depending on the cooling capacity and product classes, the new IEERs are between 15 and 20% better than the values they are replacing. The new IEERs become effective on Jan. 1, 2017.
- *o* clarifies wording regarding duct seal class to avoid misinterpretation that compliance with the text that is struck out could substitute for the seal class requirement.
- p updates Cooling Technology Institute Standard 201 in Table 6.8.1-7.
- *q* limits systems that can take advantage of the fan power pressure allowance for fully ducted return and/or exhaust air systems.
- *r* revises Section G3.1.1 Baseline HVAC System Type and Description to confirm the hierarchy for selecting baseline HVAC systems, clarify what floors to count and specify what building type to use when no one use is predominant.
- *s* adds Exception 2 to 6.5.2.1 to address single duct variable air volume reheat systems with direct digital control.
- *u* adds new requirements for transfer air in exhaust systems.

Also open for public comment from Sept. 5 to Oct. 20, 2014 is addendum bm, which makes the requirements from 90.1-2004 the baseline for

modeling when using Appendix G. In addition, it allows Appendix G to be used as a compliance path.

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

VTC STUDENT RECEIVES LYNN G. BELLENGER SCHOLARSHIP AWARD



September 3, 2014 - The ASHRAE Champlain Valley Chapter is very pleased to announce that Courtney Hart, an undergraduate in the Architectural Engineering Technology program at Vermont Technical College has been awarded Society's Lynn

G. Bellenger Engineering Technology Scholarship for 2014-2015. Ms. Hart was selected to receive the one year \$5,000 scholarship at the 2014 ASHRAE Winter Conference in New York. The scholarship is awarded based on the student's outstanding scholastic and leadership ability, character, potential service to the HVAC&R profession and financial need.

Courtney is the second recipient in Region 1 (Ms. Bellenger's home region) to be awarded this prestigious scholarship. Courtney is a member of the VTC Student Chapter of ASHRAE. Last year she served as the student chapter's vice president and currently she is serving as President.

Presenting the Lynn G. Bellenger Scholarship to Ms. Hart on behalf of ASHRAE and the scholarship trustees is Robert J. Favali, ASHRAE CVC 2014-15 Chapter President.

The Lynn G. Bellenger Scholarship to benefit women in engineering is named in memory of ASHRAE's first woman president (2010-2011). Lynn served as an inspiration and role model for all women who want to pursue a career in engineering and in particular having a primary interest in the HVAC&R profession. Lynn's was an active and highly respected member of her home chapter in Rochester, NY as well within Region 1 where she served as a past Region 1 DRC prior to her serving as Society President. To qualify for this scholarship the applicant must be a female student pursuing a B.S. degree in Engineering with a concentration matching the mission of ASHRAE, have a cumulative 3.0 GPA and/or class standing of no less than 30%.

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CRC-2014 NOTEBOOK

L-R, Dick Wilcox, Josh Chiappone, Rob Favali, Nathan Mascolino, and Rob Ward

Pete Bailey and Rob Favali attended the 2014 CRC Conference in Tarrytown, NY hosted by the Bi-State Chapter. Our Chapter took home eight awards during this meeting.

- Presidential Award of Excellence Star Award Special Citation
 Nathan Mascolino, PE
- Grassroots Government Affairs Committee Outstanding Performance Award
 Dick Wilcox
- Research Promotion Certificate of Achievement
 Robert Ward
- Membership Promotion Green Ribbon Award
 Josh Chiappone
- History Awards
 - Gold Ribbon History Award Mike Cook Gordie Root Historical Award Mike Cook
- Outstanding Performance Chapter Programs
 Robert J. Favali
- Chapter Service Award

Mike Cook

Congratulations to the efforts of the entire 2013 – 2014 Champlain Valley Chapter team including Officers, Board of Governors, Committee Chairs and volunteers for a successful year!



ASHRAE CHAMPLAIN VALLEY CHAPTER PAST PRESIDENTS RECOGNITION PAGE

	Order	Society Year Served	Name	Order	Society Year Served	Name
	1	1969-70	William Lotz, PE	24	1992-93	Richard J. Wilcox
2014	2	1970-71	Robert Miller	25	1993-94	Jon A. Soter, PE
SFPT. 2014	3	1971-72	Richard Bowler Jr., PE	26	1994-95	Leo Ioannou
	4	1972-73	Robert Coughlin	27	1995-96	Michael A. Gallo, PE
	5	1973-74	Don Johnson	28	1996-97	Steve Poole
-	6	1974-75	Gordon W. Root, Sr., PE	29	1997-98	Michael Rose
1 0N 29 No 1	7	1975-76	Jack Couture, PE	30	1998-99	Leo Ioannou
>	8	1976-77	Giustino N. Mastro, PE	31	1999-2000	Ken Couture
	9	1977-78	Neil Vallencourt, PE	32	2000-01	Peter Tousley
	10	1978-79	William Moore, PE	33	2001-02	Russ Pratt, PE
	11	1979-80	Oscar Blatchly, PE	34	2002-03	Amy (Cota) Patenaude. PE
1	12	1980-81	Stuart N. King	35	2003-04	David Anderson
	13	1981-82	Andrew Rudin, PE	36	2004-05	Tom Zoller, PE
	14	1982-83	Ted Meade, PE	37	2005-06	Bill Atkinson, PE
	15	1983-84	William A. Fyfe, PE	38	2006-07	Jay Pilliod
	16	1984-85	Edward Seraydarin	39	2007-08	Jerry Chabot, PE
	17	1985-86	Roger M. Kerr	40	2008-09	Heather Condon
	18	1986-87	Lois Root	41	2009-10	Peter F. Bailey
	19	1987-88	Mike Poirer	42	2010-11	Shawn LaBelle, PE
	20	1988-89	Thomas Wolfstitch	43	2011-12	Michael R. Cook
	21	1989-90	Bernard J. Young	44	2012-13	Thomas F. Dacres, Jr.
	22	1990-91	Edward E. Pearson, PE	45	2013-14	Nathan Mascolino, PE
	23	1991-92	Gordon W. Root, Jr., PE	46	(Present)	Robert J. Favali



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	2014 - 2015
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	1000	0
Chapter TOTAL	5050	0

GENERAL MEETING

2014_		O 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 Mascolin T: 802-540-7846 rmascolino@veic		Mike Cook T: 802-291-0911 mcook@arcmech.com		
Nathan Mascolin T: 802-861-6148 nathanm@vhv.co			SEPT, 2014	
201	4-2015 CHA	PTER OFFICERS	201	
President		vali, LEED Green Associate 04 rfavali@dubois-king.com		
President- Elect		l III, LEED AP 94 robw@vhv.com		
Vice President		Christopher C. Lezak, PE 802-540-7842 clezak@veic.org		
Secretary	Blaine Conn 802-264-113	or 34 blaine.conner@vtmechanical.com	Vol.29 No.1 =	
Treasurer		Peter Bailey 802-434-2278 pfbailey@deicontrols.com		
CC	OMMITTEE C	HAIRPERSONS		
Student Activities	Shawn LaBe 802-857-501	elle 11 ShawnL@amivt.com		
Membership	Joshua Chiappone 518-817-8669 joshua.j.chiappone@jci.com			
Resource Promotion	Tom Zoller 802- 861-61	94 robw@vhv.com		
Technology Transfer		l III, LEED AP 94 robw@vhv.com		
Refrigeration	Peter Bailey 802-434-227	78 pfbailey@deicontrols.com		
Historian	Mike Cook 802-291-091	11 mcook@arcmech.com		
Electronic Communications	Rachael Ma 802-540-784	scolino 16 rmascolino@veic.org		
Grassroots Gov't Activities		cox, LEED AP -8805 x 181 dwilcox@vhv.com		
Honors and Awards		cres, Jr., LEED AP BD+C -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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Robert J. Favali, LEED Green Assoc.

802.878.7661

802.922.6909



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