



# THE CHAMP

monthly newsletter  
of the Champlain Valley Chapter of ASHRAE

## PRESIDENT'S MESSAGE



Last month, the Champlain Valley Chapter of ASHRAE hosted a panel discussion about quality control – from the first meeting with the owner all the way through the building being commissioned

and turn over. The discussion was lively, honest, and highlighted one thing that separates a good project from a great one – communication. We make drawings and write specifications to communicate design intent, but these documents are inherently static, and sometimes are not as clear as we intended them to be. When questions arise about the design intent, it's important to select which, out of all the different ways we can reach each other, method of communication will get the right answer.

At the end of the day, we want to design systems & buildings that are comfortable, efficient, and durable, and effective communication is a critical part of project delivery. I want to thank all of the panel members who took the time to come out and be apart of this special ASHRAE event.

The month of January brings two events for ASHRAE Members:

## ASHRAE CVC UPCOMING EVENTS

Stay up to date on the latest ASHRAE CVC events by visiting our website:

[www.ashraevt.org](http://www.ashraevt.org)

### Upcoming Meetings:

January 11 - Joint AIA Webinar

February 7 - Tour

March 1 - Tour

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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.	8	2017	Stowe	Tour
Mar.	1	2017	Middlebury	Tour
Apr.	5	2017	Holiday Inn	Dinner & Tech
May	3	2017	Holiday Inn	Dinner & Tech
Jun.	TBD	2017	TBD	Social Outing
Jun.	TBD	2017	TBD	Golf Outing



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Visit [www.RJMurray.com](http://www.RJMurray.com) for product info, what's new and employment opportunities.

Wednesday, January 11th: Board of Governors member Tom Zoller will present on the future of refrigerants in the USA – including information on the phase-out of some of the most current ones on the market today; and

Friday, January 13th: The Vermont Healthcare Society Engineers invites all ASHRAE members to attend a presentation on ASHRAE Standard 36 - Advanced HVAC Controls Sequences

A special thank you to the Vermont chapter of CSI for joining us last month – in such a close-knit community as Vermont it only makes sense for organizations like CSI & ASHRAE to co-host events, and I am sure we will be doing it again soon!

Happy New Year,

Thanks!

- Blaine D. Conner

ASHRAE CVC President 2016-17

## GRASSROOTS GOVERNMENT AFFAIRS COMMITTEE

A few items of interest this month:

### New Jersey's Master Education Requirement for PE's

On 1/21/16 our Committee was notified by Dave Soukup, the ASME Governance Managing Director, that this issue is heating up in N.J. and that it will be a tough battle for the "Licensing that Works" campaign.

The ASCE lobbyist, Joe Simonetta, is anticipated to push a bill into legislation without the N.J.'s licensing Board's endorsement. In addition to

this, the bill will be drafted to require a Masters Education requirement without the "or equivalent" education provision. It was anticipated that the bill would be submitted on 1/10/17 by Assembly Leader Louis Greenwald. Our committee has reached out to the ASHRAE GGAC N.J Chair for an update, and are awaiting an update from them as to status of the bill.

To counter the push from the ASCE lobbyist, ASME has contracted with Joe Fiordaliso of NorthStar Strategies to act as lobbyist against this bill. The contract with NorthStar Strategies was made possible by financial support from AIChE, ASABE, ASHRAE, ASME, IISE.

There will be a lot to follow on this issue and our Committee will provide updates as they become available. If you would like to participate in the "Licensing that Works" campaign against the ASCE's campaign for the additional educational requirement, please contact our GGAC committee.

### Construction of the VT Gas Pipeline

Citizens and environmental groups filed a complaint against the Department of Public Service on October 15 with the Pipeline and Hazardous Materials Safety Administration for allowing Vermont Gas Systems to continue construction of the pipeline despite allegations that electrical safety standards were not met.

On Friday 1/16/17 an official at the Pipeline and Hazardous Materials Safety Administration confirmed Friday that an investigation is underway. The 41 mile pipeline is nearly complete and it uncertain if any of the investigation will halt the continuation of the project. No timeline has been set by the federal regulators for the investigation process. State officials feel confident that all regulations related to the complaint have been met.

## US Government Affairs Updates

(as reported by ASHRAE.org)

- Quadrennial Energy Review: Second Installment Released
- DOE Issues Notice of Permanent Rulemaking on Energy Conservation Standards for Residential Central Air Conditioners and Heat Pumps
- New Better Buildings Resource Helps Organizations Find Financing Solutions for Energy Efficiency Projects
- DOE Issues Notice of Permanent Rulemaking from DOE on Energy Conservation Standards for Consumer Central Air Conditioners and Heat Pumps
- Forty-four State Legislatures Now In Session
- Four U.S. Cities Pass New Building Efficiency Ordinances
- Florida Senate Bill 7000 Raises Concerns
- What Grinds My Gears?

Refer to the following link for additional information on the above topics:

[https://www.magnetmail.net/Actions/email\\_web\\_version.cfm?publish=newsletter&user\\_id=ASHRAE&message\\_id=13874917](https://www.magnetmail.net/Actions/email_web_version.cfm?publish=newsletter&user_id=ASHRAE&message_id=13874917)

- Dick Wilcox

ASHRAE CVC GGAC Chair



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## PAOE UPDATE

The Presidential Award of Excellence (PAOE) is a great way to stay for ASHRAE-CVC to stay on top of chapter operations while earning points and awards for our chapter. Each year the ASHRAE Society President dedicates a portion of their presidential theme to include in the PAOE.

Updates from Committee Chairs (Current PAOE Points listed)

- Chapter Operations – 835
- CTTC – 50
- GGAC – 50
- History – 165
- Membership Promotion – 100
- RP – Assigned by RVC – 825
- SA- 150

Respectfully Submitted,

- Blaine D. Conner

ASHRAE CVC President 2016-17



## ASHRAE Learning Institute 2017 Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

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

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – – – Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

#### Basics of High-Performance Building Design

Wednesday, February 8, 2017 – 1:00 p.m. to 4:00 p.m.

#### Designing Toward Net-Zero Energy Commercial Buildings

Tuesday, February 14, 2017 – 1:00 p.m. to 4:00 p.m.

#### ASHRAE Guideline 0: The Commissioning Process

Tuesday, February 21, 2017 – 1:00 p.m. to 4:00 p.m.

#### Commissioning Process & ASHRAE Standard 202

Monday, February 27, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Fundamental Requirements of Standard 62.1-2016

Thursday, March 9, 2017 – 1:00 p.m. to 4:00 p.m.

#### Commissioning Process in New and Existing Buildings

Part I: Monday, March 13, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Wednesday, March 15, 2017 – 1:00 p.m. to 4:00 p.m.

#### Design of Affordable & Efficient Ground Source Heat Pump Systems

Wednesday, March 29, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Complying with Standard 90.1-2016: Envelope/Lighting

Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Complying with Standard 90.1-2016: HVAC/Mechanical

Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Complying with Standard 90.1-2016: Appendix G

Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

#### Air-to-Air Energy Recovery Fundamentals

Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

#### Air-to-Air Energy Recovery Applications: Best Practices

Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

#### Humidity Control: Basic Principles, Loads and Equipment

Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

#### Humidity Control: Applications, Control Levels and Mold Avoidance

Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

#### Advanced High-Performance Building Design

Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Fundamental Requirements of Standard 62.1-2016

Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

#### Designing High-Performance Healthcare HVAC Systems

Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

#### Laboratory Design: The Basics and Beyond

Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

#### Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** Complying with Standard 90.1-2016

Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

#### **NEW!** New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

## ASHRAE HVAC Design Training

**2 Courses, 5 Days of Intense Instruction**

**Atlanta • Dallas • Doha • Hartford • Toronto**

### **HVAC Design: Level I – Essentials** - Registration is \$1,264 (\$1,009 ASHRAE Member)

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

### **HVAC Design: Level II – Applications** - Registration is \$854 (\$699 ASHRAE Member)

*HVAC Design: Level II — Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray ([kmurray@ashrae.org](mailto:kmurray@ashrae.org)) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

# ASHRAE Certification

More than 2,500 professionals certified in six key built-environment fields.

## Are You Ready to Join Them?



### Validation. Pride. Recognition.

## The Benefits of an ASHRAE Certification

### SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

### GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 30 national, state and municipal entities.

### DISTINGUISH YOURSELF

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

### LET ASHRAE PROMOTE YOUR ACHIEVEMENT

Certificants and their employers are listed on the website and in ASHRAE Insights.

**Schedule an exam at one of over 300 testing centers worldwide TODAY!**

**To learn more or apply, please go to [www.ashrae.org/certification](http://www.ashrae.org/certification)**

## 5 Easy Steps to Earn and Maintain an ASHRAE Certification

### 1. Read the Candidate Guidebook

Visit [www.ashrae.org/certification](http://www.ashrae.org/certification) and download the guidebook for the program in which you are interested.

### 2. Complete the Application

Complete the online application at [www.ashrae.org/certification](http://www.ashrae.org/certification). Membership in ASHRAE is not a requirement for certification.

### 3. Schedule an Examination

BCxP, BEAP, BEMP, HBDP, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

### 4. Review Available Resources

The Candidate Guidebook for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

### 5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45\* Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

\*BCxP requires 50 PDHs.

**ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in six key, built-environment fields.**

**Recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.**

### Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to *incorporate standards, guidelines and regulatory codes as well as unique healthcare facility requirements and design principles in HVAC system design.*

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

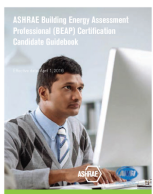
### Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to *manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.*

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

### Building Energy Assessment Professional (BEAP)

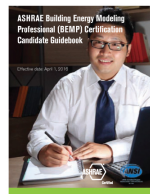


The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to *audit, assess and analyze residential, commercial and industrial building energy use and develop and implement recommendations.*

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program, as is its BEMP certification.

Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use. Two separate Workbooks, As Designed and In Operation, are part of the BuildingEQ program. Submitting both of these Workbooks can earn an As Designed and In Operation building rating. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to *evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.*

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only

those certified as BEMPs, and Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Building Commissioning Professional (BCxP)



The BCxP certification validates competency to *lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.*

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

### High-Performance Building Design Professional (HBDP)



The HBDP certification, an ANSI accredited certification program, validates competency to *design and integrate sustainable HVAC&R systems into high performing buildings.*

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.



“Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry.” Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC

## Value of Earning Your ASHRAE Certification

In a recent “Value of Certification” survey, this is what ASHRAE-certified professionals had to say:

- ASHRAE Certification validates my level of specialized knowledge and ability (89%).
- ASHRAE Certification helps differentiate me from my peers (82%).
- In my field, ASHRAE Certification has provided me with greater professional recognition (73%).



# NORTHEAST BIOMASS HEATING CONFERENCE & EXPO 2017

BURLINGTON, VT | APRIL 25-27 | NEBIOMASSHEAT.COM

BIOMASS THERMAL ENERGY COUNCIL

## NEBHX 2017

*Exciting New Conference Program,  
Best Concentration of Biomass Thermal Suppliers in One Expo Hall*

From April 25-27, 2017, the Northeast Biomass Heating Conference & Expo (NEBHX) will draw hundreds of industry professionals and exhibitors from the U.S. and Canada to Burlington, VT to attend North America's leading biomass thermal energy event.

The Conference offers tracks that appeal to key audiences, such as:

1. **Project Developers and ESCOs**
2. **Facility Managers, Engineers, and Architects**
3. **Fuel Manufacturers, Equipment Manufacturers, and Supply Chain**
4. **Policy Influencers and Implementers** including NGOs, state/federal agency and legislative staff
5. **Marketing and Business Development Professionals**

**The technical and project development track** will offer insight and debate on current and emerging fuel and equipment technologies.

**The policy track** will provide a roundup of state, federal, and international biomass policies and a look at the policy innovations taking shape in the Northeast and other regions.

**The business development track** will provide information on selling biomass thermal energy to customers, financing projects, and conducting feasibility studies.

The Expo is the ideal place for engineers, architects, builders, and facility managers to see the opportunities for biomass thermal heating in their facilities, and communicate one-on-one with manufacturers and providers to see what technology best fits their needs.

A bus tour and educational workshops, some with continuing education credit opportunities, are scheduled for April 25. This will be followed by an evening sneak peek of the expo hall before the official opening on April 26.

NEBHX is hosted by the Biomass Thermal Energy Council, and will be held at the Sheraton Hotel and Conference Center in Burlington, VT, April 25-27, 2017.

For more information and to register, visit [www.nebiomassheat.com](http://www.nebiomassheat.com).



The Biomass Thermal Energy Council (BTEC), the national industry trade association for biomass thermal energy and combined heat and power. Based in Washington, DC, BTEC lobbies for biomass-friendly policies and works to develop technical and regulatory standards to expand biomass thermal energy markets. BTEC's members include businesses, non-profits, universities, and government organizations with an interest in advancing biomass thermal as a mainstream renewable energy source. To find out more about BTEC, visit [www.biomassthermal.org](http://www.biomassthermal.org).



## ASHRAE COLLEGE OF FELLOWS: GRADUATE STUDENT TRAVEL AWARD

Did you know that the College of Fellows awards a Graduate student up to a total of \$2,000 to attend the two ASHRAE Conferences listed below? These funds go directly to the selected candidates to cover travel, lodging, and meals!

In addition to the defrayed costs, these award recipients are mentored prior to and during the meeting, having one on one help in determining which sessions and Technical Committee meetings they will attend and introductions to various ASHRAE Members who also specialize in their chosen area of research. This award allows future HVAC researchers the ability to become involved with ASHRAE TCs and participate in preparing and potentially bidding on ASHRAE projects.

The requirements are:

- be an ASHRAE Student Member,
- be a Ph.D. candidate within 24 months of graduation
- have a thesis topic within ASHRAE's scope of research.

The 2017-18 Conferences covered by this award are the 2017 Annual ASHRAE Conference – Long Beach (June 24 – 28) and the 2018 Winter ASHRAE Conference – Chicago (January 20 – January 24).

The award application and details may be downloaded from the ASHRAE College of Fellows website (<http://www.ashraecof.org/>). Submittal may be by email (submit to [COF@ASHRAE.org](mailto:COF@ASHRAE.org) or [MGotzmer@ashrae.org](mailto:MGotzmer@ashrae.org)) or mail to Megan Gotzmer, COF Staff Liaison, 1791 Tullie Circle, Atlanta, GA, 30329. All applications must be received by March 15, 2017 and award recipients will be notified by the beginning of April.

## ASHRAE 90.1 NEWS

ATLANTA – ASHRAE is seeking presenters for its new Building Performance Analysis Conference as well as teams for its annual LowDown Showdown modeling competition.

The ASHRAE Building Performance Analysis Conference takes place Sept. 27-29, 2017, in Atlanta, Ga. The modeling competition is part of that event.

"This conference engages the design aspect of modeling and simulation," Dennis Knight, conference chair, said. "Our goal is to serve practitioners with the most up-to-date best practices, work flows and processes required to plan, design, construct and operate high performing, low energy consuming, environmentally responsive and responsible, safe, secure and healthy buildings for human occupancy."

A call for presenters is now open for presentations that address topics of interest to practitioners, modelers and designers.

Also, the ASHRAE LowDown Showdown modeling competition returns for its third year. Participants will model an existing building that includes both office space and climate controlled archival warehouse space.

The 2017 competition features two changes: it is now a competition vs. a challenge, and conference attendees can now form their own teams to retrofit an existing building.

For more information about the conference, to submit a presentation proposal or sign up for the modeling competition, visit [www.ashrae.org/BuildPerform2017](http://www.ashrae.org/BuildPerform2017).

## ASHRAE 90.1 NEWS



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](http://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

**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](mailto: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](mailto:mhezlep@ashrae.org)



## ASHRAE CHAMPLAIN VALLEY CHAPTER PAST PRESIDENTS RECOGNITION PAGE

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*

## 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 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	100
Student Activities	500	150
Technology Transfer	1050	50
Research & Promotion	1050	825
History	300	165
Grassroots Government Activities	650	50
Chapter Operations	1050	835
<b>Chapter TOTAL</b>	<b>5400</b>	<b>2175</b>

## GENERAL MEETING

### 2016-2017 BOARD OF GOVERNORS

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### 2016-2017 CHAPTER OFFICERS

<b>President</b>	Blaine Connor 802-264-1134   <a href="mailto:blaine.conner@vtmechanical.com">blaine.conner@vtmechanical.com</a>
<b>President-Elect</b>	Brent Weigel
<b>Vice President</b>	Nicholas Thiltgen, PE
<b>Secretary</b>	Charlie Carpenter, EIT
<b>Treasurer</b>	Jeremiah Trombly 802-862-6199   <a href="mailto:jtrombly@masvt.com">jtrombly@masvt.com</a>

### COMMITTEE CHAIRPERSONS

<b>Student Activities</b>	Brent Weigel
<b>Membership</b>	Joshua Chiappone 518-817-8669   <a href="mailto:joshua.j.chiappone@jci.com">joshua.j.chiappone@jci.com</a>
<b>Resource Promotion</b>	Tom Zoller 802- 861-6194   <a href="mailto:robw@vhv.com">robw@vhv.com</a>
<b>Technology Transfer</b>	Blaine Connor 802-264-1134   <a href="mailto:blaine.conner@vtmechanical.com">blaine.conner@vtmechanical.com</a>
<b>Refrigeration</b>	Peter Bailey 802-434-2278   <a href="mailto:pfbaily@deicontrols.com">pfbaily@deicontrols.com</a>
<b>Historian</b>	Mike Cook 802-291-0911   <a href="mailto:mcook@arcmech.com">mcook@arcmech.com</a>
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<b>Grassroots Gov't Activities</b>	Richard Wilcox, LEED AP T: (802) 655-8805 x 181   <a href="mailto:dwilcox@vhv.com">dwilcox@vhv.com</a>
<b>Honors and Awards</b>	Thomas Dacres, Jr., LEED AP BD+C T: (802) 861-6152   <a href="mailto:tomd@vhv.com">tomd@vhv.com</a>

Subscription to the newsletter and membership questions should be directed to Joshua Chiappone (518) 817-8669 or [joshua.j.chiappone@jci.com](mailto:joshua.j.chiappone@jci.com)

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