



VOLUME 11, ISSUE 8

MARCH 2017

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## March ASHRAE Meeting

**Topic:** ASHRAE Building Energy Quotient (bEQ)

**Presenter:** Hoy Bohanon, PE  
ASHRAE Distinguished Lecturer

**When:** March 13th, 2017

**Where:** City Grill  
384 East Ave, Rochester

**Cost:** \$25.00



Please RSVP by noon Thursday, March 9th to Tim Duprey  
[tim.duprey@pres-services.com](mailto:tim.duprey@pres-services.com)

Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission of the chapter.



## Chapter Officers

### President

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jeff.close@pres-services.com

### President Elect

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### Treasurer

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pkenna@nrg-concepts.com

### Secretary

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tstreber@jwswanson.com

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### CTTC

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jwiedrick@bergmannpc.com

### Grassroots Government Advocacy

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### Refrigeration Co-Chairs

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### Historian

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### Membership

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### Webmaster

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### Nominating / Past President

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### Buyer's Guide

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(585) 364-1628  
bfweinblatt@popligroup.com

ASHRAE 2016-2017 Meeting Schedule			
Date	Event	Theme	Location
Monday, 3/13/2017	ASHRAE Building Energy Quotient (bEQ) (presented by Hoy Bohanon, PE, President, Hoy Bohanon Engineering, PLLC)	Resource Promotion (PDH Pending)	City Grill @ 12:00 PM
Monday, 4/10/2017	Refrigeration Tour at Allied Foods	Refrigeration Night (PDH Pending)	Brockport
Tuesday, 4/18/2017	Rochester Engineering Symposium	7 PDH Possible	Rochester Hyatt Hotel
Monday, 5/8/2017	Annual ASHRAE Golf Outing and Picnic (Ravenwood Golf Course)	---	9:30 AM Golf 4:30 - 8:00 Picnic

Note: Dates, topics and presenters are subject to change, but if this happens we will post any updates to the calendar on our website.

## 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.



Shaping Tomorrow's  
Built Environment Today

## Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and 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.

# President's March Message

March Newsletter 2017  
President's Message

Our meeting in February was on "Data Center and Critical Space Cooling Technology Advancements" present by Mike DeGaetano, R.L. Kistler. The turnout was great, thanks to everyone who attended.

On Friday, February 10<sup>th</sup>, 2017 the Rochester ASHRAE Chapter hosted its 60<sup>th</sup> Annual Valentine Dinner Dance at the Century Club in Rochester. A special thanks to Jody and Matthew McGarry for putting on another fantastic event. Also thanks for all those who attended and contributed to the event.

During Engineers Week several of our chapter members took time out of their busy schedules to visit local High Schools and share engineering knowledge, experience and passion to students. Thanks to Rob Hudson (Student Activities Chair) and others who participated.

In March our Chapter Meeting will be on "ASHRAE Building Energy Quotient (bEQ)" presented by Hoy Bohanon, PE (ASHRAE Distinguished Lecturer).

Please continue to check out our website at [www.rochester.ashraechapters.org](http://www.rochester.ashraechapters.org) for information on upcoming chapter meetings, current officer list and contact information, chapter newsletters, and more! Also take a minute and like us on Facebook at [www.facebook.com/#!/ashraerochester](https://www.facebook.com/#!/ashraerochester).

Jeffrey Close, P.E.  
2016-2017 President  
Rochester Chapter



*Jeff Close, 2016-2017 President*

# March Meeting Info

Please consider joining us for this upcoming monthly meeting and/or please forward this e-mail to anyone you may think would be interested in attending or benefit from this presentation.

## March ASHRAE Meeting << PDH APPROVED>>

**Date:** Monday, March 13th, 2017

**Location:** City Grill

**Time:** 12pm Lunch Buffet .. Presentation to start approx. 12:30pm

**Cost:** \$25.00

**Speaker:** Hoy Bohanon, PE (ASHRAE Distinguished Lecturer)

**Topic:** ASHRAE Building Energy Quotient (bEQ)

**Note:** (1) PDH {Approved}

Remember, as an option, we have on-line payments available via PayPal  
(no PayPal account required)

<< Pay for Meeting Registration online via PayPal >>

Use the following link: <http://rochester.ashraechapters.org/meetings.html>

Cash or check payment is still accepted at the door with your reservation.

Please RSVP no later than noon Thursday March 9th to Tim Duprey

Phone: 585.330.6430 or e-Mail ... [ASHRAERochester@gmail.com](mailto:ASHRAERochester@gmail.com), [tim.duprey@pres-services.com](mailto:tim.duprey@pres-services.com) or [tduprey@rochester.rr.com](mailto:tduprey@rochester.rr.com).

# Highlights from February ASHRAE Meeting



*February's ASHRAE Meeting featured Mike DeGaetano from RL Kistler and a discussion on Data Center and Critical Space Cooling Technology. Below, Mike draws the 50/50 Raffle, which was won by Mark Kukla. Mark donated his winnings to Research Promotion. Matt Devlin (left) and Bill Clark (right) look on. Thank you Mark!*





This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, Jeff Close at (585) 289-6816 or by email [jeff.close@pres-services.com](mailto:jeff.close@pres-services.com).

This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

## Presidential Award Of Excellence



Download



Achievements



Report

Chapter:

Fiscal Year:

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 1725
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 925
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 1000
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 485
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 1575
▶ RP	Par: 1050	Min Points: 800	Total Points: 850
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 1295

## Like us on Facebook!

Visit our new Facebook page by searching for “ASHARE Rochester” on Facebook. Any ideas for additions or improvements email to Mark Kukla at [mark@airsystemsbalancing.com](mailto:mark@airsystemsbalancing.com). Keep up to date with current events and photos from recent meetings.



# Rochester Chapter

## Committee Chairs Updates

### CTTC / Program

#### ASHRAE Technology Awards

The deadline for Chapter level ASHRAE Technology Awards is fast approaching. ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation.

Awards are presented in six categories for new and existing facilities:

- Commercial Buildings (New, Existing, EBCx)
- Institutional Buildings (New, Existing, EBCx)
- Educational Facilities
- Other Institutional
- Health Care Facilities (New, Existing, EBCx)
- Industrial Facilities or Processes (New, Existing, EBCx)
- Public Assembly Facilities (New, Existing, EBCx)

Residential

Judging is based on the merits of Energy Efficiency, IAQ and Thermal Comfort, Innovation, Operation and Maintenance, Cost Effectiveness, Environmental Impact and Quality of Presentation.

Chapter level award applications require only a one-page application, a schematic and a short narrative.

First place winners in each of the six categories at the chapter level will be submitted for judging in the regional awards competition.

Awards are intended for built projects and as such must have been occupied prior to September 1<sup>st</sup>, 2016 to be eligible.

The following link includes additional details about the awards program:

<https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview>

Please consider representing the Rochester Chapter of ASHRAE by submitting your project to the chapter for consideration before **May 1, 2017**. Email [jwiedrick@bergmannpc.com](mailto:jwiedrick@bergmannpc.com) with any questions, to receive an application form, for a sample application or any other concerns.



# Membership Promotion

A reminder for any new members –

Included in new membership, you receive one regular monthly lunch meeting FREE! There are only two meetings left in our year that qualify March 13<sup>th</sup> or April 10<sup>th</sup>. If you are a new member since July and have not used your free meeting, please consider coming, introducing yourself, and getting to know your ASHRAE colleagues!

As usual, please take a few minutes to make sure that your profile is up to date at [www.ASHRAE.org](http://www.ASHRAE.org). Keeping this information current ensures that you get the most value out of ASHRAE.

Thank you, and as always, thank you for your support for ASHRAE!

Sincerely,



**Membership Promotion**

Join Online  
[ashrae.org/membership](http://ashrae.org/membership)

ASHRAE Rochester Chapter  
[Rochester.ashraechapters.org](http://Rochester.ashraechapters.org)

Michael Benedict  
(585) 490-2661  
[mike@airsystemsbalancing.com](mailto:mike@airsystemsbalancing.com)

## Refrigeration

### Refrigeration Night

“Refrigeration Night” will be on Monday April 10th at Allied Frozen Storage (260 State Street in Brockport). The focus will be on the Love Beet Cold Storage Facilities. Our host will be Peter Brennan, VP, Crosby-Brownlie, Inc.

### Dinner and Technical Session details:

SUNY Brockport, New York Room in Cooper Hall.

Buffet dinner estimating 40 guests.

Will be \$25 per person.

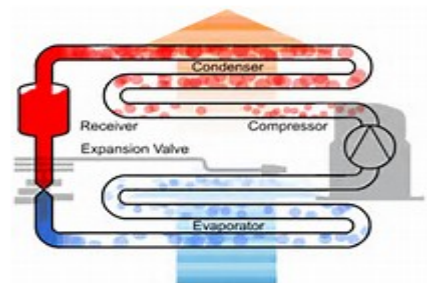
5:30 PM gathering

6:00 PM Buffet dinner

6:30 PM Technical Session on Mechanical Systems

7:00 PM leave for tour

**(PDH Pending)**



# Student Activities

## ASHRAE Members Out and About in the Community

Promoting engineering to youth in the community has become more important than ever, so to celebrate this year's National Engineers week (February 19 - 25, 2017) ASHRAE members immersed themselves into celebrating the engineering profession with youth in the community.

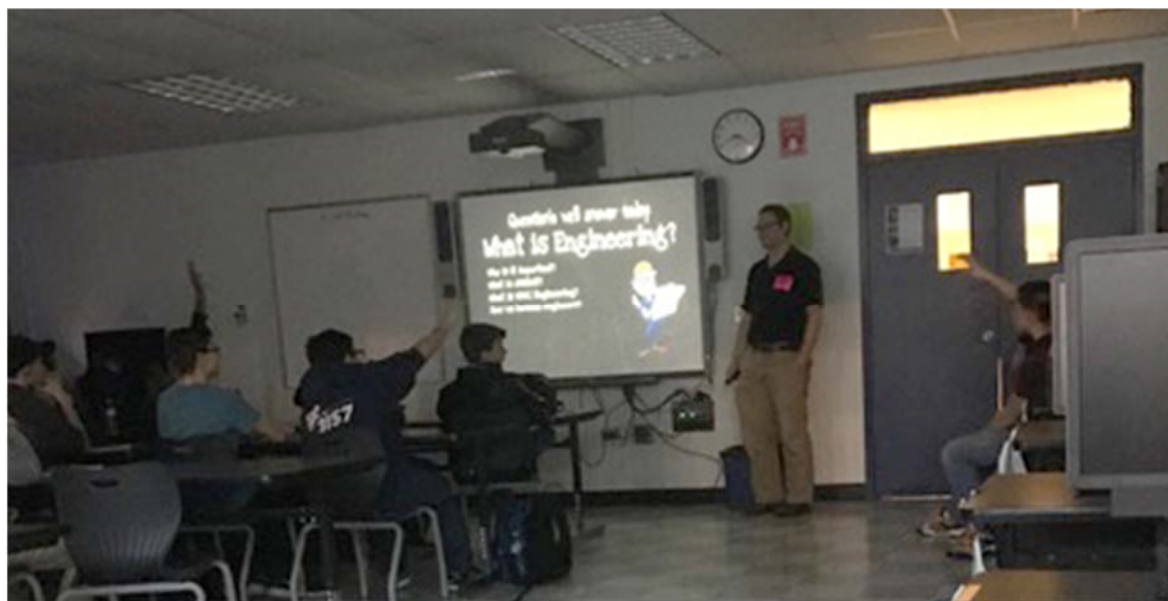
Our Student Activities team of volunteers coordinated presentations with several area school districts such as Naples, East Irondequoit, Fairport and Central Square in Syracuse. There they visited Principles of Engineer classes and shared what it's really like to be an engineer. These presentations discussed everything from going into the field, attending project team meetings, and applying calculations to building design. Presenters also share details about ASHRAE and why the organization is so important to our field.

Founded by NSPE in 1951, National Engineers Week or EWeek is dedicated to ensuring a diverse and well-educated future engineering workforce. During this week long recognition program, engineers are encouraged to speak with youth about the importance of engineering and technology in today's world.

"Working with engineering students is always a rewarding experience," explains ASHRAE Student Activities Chair, Rob Hudson. "It's nice to share something your passionate about and see that same thing spark interest in those who are the future of the engineering profession."

Special thanks to those volunteers who were able to find the time to contribute to our communities!

The ASHRAE Student Activities Committee is always looking for volunteers to help us with these efforts. If you'd like to get involved, please send an email to Rob Hudson at [rhudson@ibceng.com](mailto:rhudson@ibceng.com).



(Pictured Above) ASHRAE Student Activities Chair, Rob Hudson, speaking to Project Lead the Way Students at East Ridge High School.

# Research Promotion

Springtime is fast approaching and the 2016-2017 Fundraising Campaign will be coming to a close in a little over 3 months. Don't miss out on supporting this year's campaign and helping our chapter meet our RP goal for 2016-2017, visit the website at the bottom of this page to make a contribution. We have already received over \$12,000 in donations this year, but still have a ways to go to meet our chapter goal of \$19,000. As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research. It's because of your support that ASHRAE is able to fund more than 80 research projects world wide, including some within our region.

We would also like to thank Mark Kukla from Air Systems Balancing who won the 50/50 drawing at last months meeting and donated his winnings back to ASHRAE Research.

We are in the planning phase for our 2<sup>nd</sup> Annul Trap/Skeet shoot to support ASHRAE Research. We are working on securing a date for this years event, details and a save the date will be coming out within the next month. We hope you can join us at this wonderful event.

Thanks again for all your support and I look forward to seeing you at the next Rochester Chapter Meeting.

Matt Devlin, CEM, CPMP

RP Chair

[www.ashrae.org/contribute](http://www.ashrae.org/contribute)



# Student Activities

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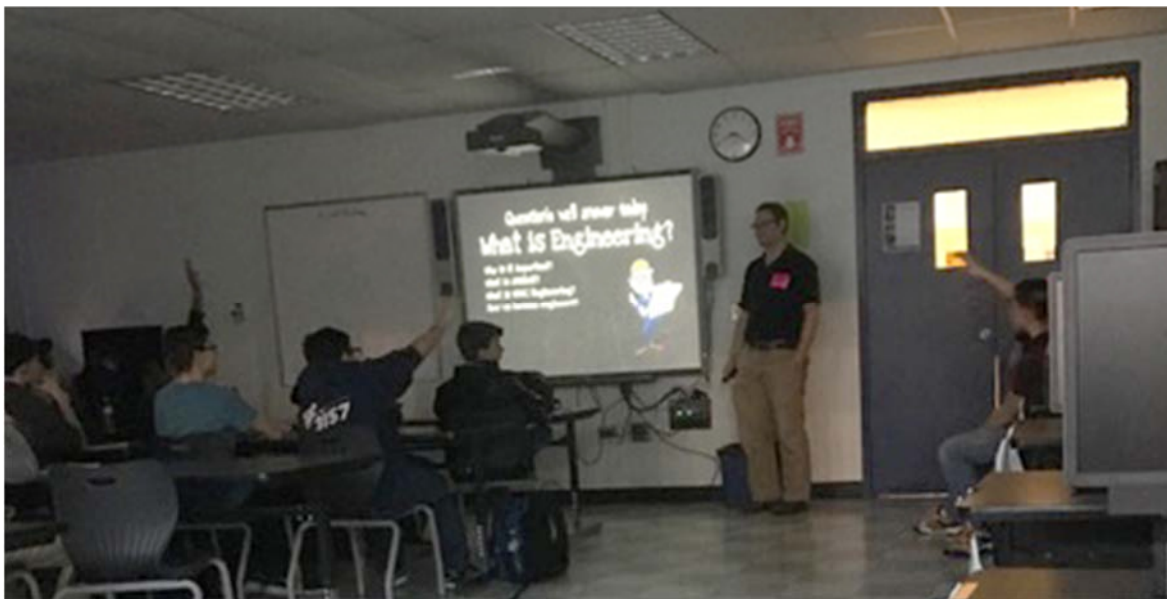
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(Pictured Above) ASHRAE Student Activities Chair, Rob Hudson, speaking to Project Lead the Way Students at East Ridge High School.



**THANK YOU TO OUR SPONSORS!**



**60<sup>th</sup> Valentine's Dinner Dance**

**Gold Level**

Crosby-Brownlie, Inc.  
Gray Metal Products, Inc.  
R.L. Kistler, Inc.  
Victaulic

**Sponsors**

American Metals  
ABR Wholesalers, Inc.  
Cogenic Mechanical  
Day Automation Systems, Inc.  
Eagle Bay Refrigeration, Inc.  
IBC Engineering, P.C.  
Isaac Heating & A/C  
LaBella Associates, D.P.C.  
Monroe Piping & Sheet Metal, LLC  
Postler & Jaeckle Corp  
PRES Energy  
R.F. Peck Co., Inc.  
R.P. Fedder Corporation  
Trane  
Upstate Systems, Inc.





**MONDAY, MAY 8, 2017**  
***ASHRAE Picnic / Golf Tournament***  
***To be held at***  
**Ravenwood Golf Course**

Reservation Deadline is... April 28, 2017



**Ravenwood  
Golf Course**  
**929 Lynaugh Road**  
**Victor, NY 14564**  
 Golf Registration 9:30 – 10:45  
 Juice, Scones and Coffee Served  
 11:00 am - Shotgun Start

**Picnic: 4:00 PM-7:30 PM**  
 Cocktails & Hors d'oeuvres 4:00-5:30 PM  
 Dinner: 5:30 PM – 7:30 PM  
*Dinner Catered By:*  
 Dinosaur Bar B Que  
 at Ravenwood Golf Club



***Four Man Scramble and  
Optional Skins Game***  
Golf includes:

- o Golf
- o Cart
- o Driving Range
- o Prizes
- o Beer & food at the turn

NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR!

TICKETS WILL BE MAILED TO YOU OR CAN BE PICKED UP AT THE R.F. PECK CO., INC.

*Please include check and make payable to:*

**"ASHRAE – Rochester Chapter"**

Return this form....

Mail prior to April 28, 2017 to:

Attention: Kacie Hoffman

R.F. Peck Co., Inc.

889 Atlantic Avenue

Rochester, New York 14609

*Any questions, call (585) 697-0839 ext. 105*

*Email: [khoffman@rfpeck.com](mailto:khoffman@rfpeck.com)*

Address where you would like your picnic tickets sent to:

Company: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_

***Ticket Request Form***

<b><i>Event</i></b>	<b><i>Fee Amount Each</i></b>	<b><i># Attending</i></b>	<b><i>Total</i></b>
Golf	\$95.00		\$
Picnic	\$55.00		\$
<b>OR:</b>			
Golf and Picnic <b>(SAVE \$10.00)</b>	\$140.00		\$
<b>Total amount enclosed:</b>			\$
<b>Golfer #1</b>	<b>Golfer #2</b>	<b>Golfer #3</b>	<b>Golfer #4</b>
<b>Golfer #5</b>	<b>Golfer #6</b>	<b>Golfer #7</b>	<b>Golfer #8</b>



# 2016 ASHRAE PICNIC SPONSORSHIP FORM

**Monday May 8, 2017**

 <p><b>RAVENWOOD</b> GOLF CLUB</p>		
<p>Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 11:00 AM – 4:00 PM - Golf 4:00 PM - 7:30 PM - Picnic</p>	<p><u>Picnic: 4:00 PM-7:30 PM</u> Cocktails &amp; Hors d'oeuvres 4:00-5:30 PM Dinner: 5:30 PM – 7:30 PM <i>Dinner Catered By:</i> Dinosaur Bar B Que at Ravenwood Golf Club</p> 	<p>Thank you in advanced for supporting this long standing <b>ASHRAE</b> Rochester Chapter tradition.</p>

Please include check (on notes put what sponsorship you made) and make payable to:  
ASHRAE Rochester Chapter

Mail to:  
Attention: Jim Browe  
RF Peck Company, Inc.  
889 Atlantic Ave.  
Rochester, NY 14609

Any questions, call Jim at (585) 697-0836 ext. 101  
Email: [jbrowe@rfpeck.com](mailto:jbrowe@rfpeck.com)

Please fill out so we can correctly recognize you or your company:

Company: \_\_\_\_\_  
OR  
Individual Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_

<b>Sponsorship Form</b>		
<i>Sponsorship</i>	<i>X for Sponsorship</i>	<i>Sponsorship Amount</i>
Major Door Prize Sponsor – Gift/Item or Cash Donation- \$200 or more.		
Gold - \$250.00 - Hole Sponsorship and Recognition at Picnic		\$250.00
Silver - \$150.00 - Hole Sponsorship		\$150.00
Bronze - \$100.00 - Recognition at Picnic		\$100.00
Prize Sponsor - \$175.00 - Longest Drive		\$175.00
Prize Sponsor - \$175.00 - Closest to Pin		\$175.00
<b>Total Check Amount:</b>		



# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE  
 Board of Governors Meeting  
 February 10, 2017 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564  
 (Call in #1-712-432-0360, Access: 137504#)

President / CRC Delegate	Jeff Close	X
President Elect / Program/ CRC Alternate	Bill Clark	X
Treasurer	Paul Kenna	X
Secretary	Tom Streber	X
Immediate Past President & Nominating	Chris Walter	X
Board of Gov. (3) & Attendance Chair	Tim Duprey	X
Board of Gov. (3) / Buyers Guide	Branden Farnsworth-Weinblatt	
Board of Gov. (2) & Refrigeration Co-Chair	Sam Scorsone	
Board of Gov. (2) & Website Chair	Steve Dear	
Board of Gov. (1) & Membership Promotion (MP)	Mike Benedict	X
Board of Gov. (1)	George Herman	X
Historian Chair	Jake Hall	X
Newsletter Editor	Scott Edwards	
Resource Promotion Chair (RP)	Matt Devlin	X
Awards & Recognition Chair	Al Rodgers	
Chapter Technology Transfer Chair (CTTC)	Jeff Wiedrick	
Education	Bill Murray	
Publicity	Mark Kukla	X
YEA Chair (Young Engineers in ASHRAE)	Matt Kremers	X

# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE  
 Board of Governors Meeting  
 February 10, 2017 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564  
 (Call in #1-712-432-0360, Access: 137504#)

Student Activities Chair (SA)	Rob Hudson	X
Picnic/Golf Chair & CRC 2016 Committee Chair	Jim Browe	
Valentine's Dinner Dance	Jody McGarry	X
Grassroots Government Advocacy Chair	Tom Burke	
Refrigeration Co-Chair	Mike Nohle	
Women in ASHRAE	Jaimee Wilson	
Attendance Co-Chair	Brett Fryover	X

## Meeting Minutes

1. Call to Order Jeff Close
2. Roll Call Tom Streber
3. Review and Approval of Previous Meeting Minutes All
4. Treasurer Paul Kenna
  - Current Statement Balances
  - 2016-2017 P&L Update
5. President Elect/Program Bill Clark
  - Feb meeting is PDH approved.
  - April Refrigeration meeting is at Allied Cold Storage
6. Attendance Tim Duprey
  - 72 attendees at January meeting.
    - i. 18 non-members attending.
    - ii. 10 first time visitors.
  - 36 current reservations for Feb. meeting.

# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE  
 Board of Governors Meeting  
 February 10, 2017 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564  
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7. CTTC Report Jeff Wiedrick
- Project submission by May 1, 2017.
  - Submit newsletter article on submission categories
8. Membership Report Mike Benedict
- February meeting is to highlight membership.
  - First meeting is free for new members (golf/picnic excluded).
  - 273 Total members (245 non-student, 28 student).
  - Membership up (5) from December and (17) from June 2016.
  - Membership upgrades.
  - (2) New lifetime members - William Tallie and Alfred Rodgers.
    - i. Upcoming newsletters to include a “questions and answers” section for each.
  - New members past 30 days ((4) YEA, (0) Associate, (1) Full).
  - New members to be included in newsletter distribution.
9. Student Activities Report Rob Hudson
- Student chapter status (MCC or RIT)
  - Engineer’s week volunteers (Engineering presentation to students).
    - i. East Rochester - Wednesday
    - ii. Naples - Tuesday
    - iii. Pittsford dropped out.
    - iv. Fairport, Central Square (Syr), and Irondequoit have joined.
10. Education Report Bill Murray
- Scholarship
11. YEA Report Matt Kremers
- March 3<sup>rd</sup> & 4<sup>th</sup>, Leadership weekend (2-registered / 1-waiting).
  - Future site visit - ETL Lab in Cortland, date TPD (April).
  - Future Tech Session - Possibly June.
12. Awards & Recognition Report Al Rodgers
- 50 year member.
  - Possible Distinguished Service award - Pete Oppelt.
  - Looking for Realto Cherney nominee.

# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE  
 Board of Governors Meeting  
 February 10, 2017 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564  
 (Call in #1-712-432-0360, Access: 137504#)

13. Resource Promotion Report Matt Devlin
- Current vs. Goal. On schedule.
  - Track and Skeet shoot. Possible Wednesday in May.
  - “Matching Funds” deadline is end of March.
14. Refrigeration Report Mike Nohle/Sam Scorsone
- Tour details
    - i. Allied Foods, Brockport.
    - ii. Dinner is at Cooper Hall, SUNY Brockport.
15. Grassroots Government Advocacy Report Tom Burke/George Herman
- Mayor recognized National Engineers’ Week (2/19-2/25) with proclamation letter.
  - Letter to be highlighted on website
16. Newsletter Report Scott Edwards
- Committee submissions
  - Newsletter deadline
  - Met RES deadline
17. Buyers Guide Branden Farnsworth-Weinblatt
- Branden has resigned from ASHRAE BOG.
  - Jeff to contact Chuck White to help finish the year.
  - Transition from Marianne - Information has been sent to Branden.
  - Plan/schedule for this year
  - Potential for business card ads with 12 month commitment.
18. Historian Report Jake Hall
- Digitizing archive status.
  - Invite life members to meetings.
  - Begin chapter timeline for publishing on website.
19. Publicity Report Mark Kukla
- Facebook & Linked In.
  - Short video of Life Members to publish on website.



# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE  
 Board of Governors Meeting  
 February 10, 2017 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564  
 (Call in #1-712-432-0360, Access: 137504#)

20. Website Report Steve Dear/Kevin Wind
- Monthly updates (schedule, newsletter, BOG MM's)
21. Nominating Report Chris Walter
- Met after last month's BOG meeting.
  - Ballot to be established 30 days prior to March meeting.
22. Women in ASHRAE Jaimee Wilson
- Lunch meetings start 1<sup>st</sup> Wednesday of the month at Distillery.
  - Book Club to start in April.
23. Valentines Dinner Dance Report Jody McGarry
- Schedule & Venue set
  - 110 attendees.
24. Golf/Picnic Report Jim Browe
25. Presidential Award of Excellence (PAOE)
- All categories at par. 4 of 6 are above par.
26. New Business:
- Ed Maybeck has passed away. ASHRAE to donate to Lake Ave. Baptist Church in his honor.
  - SMART start weekend for getting students interested in Engineering.
  - President-Elect training for Bill Clark in Troy NY.
  - Society dues to be paid.
  - Identify members who are certified.
27. Old Business:
- BSA STEM program.
  - Engineering Symposium 4/18. (3) Speakers are set.
  - ASHRAE HOF - Lynn Bellinger nomination is still progressing to next level.
  - RES Gala Sponsorship.
28. Set next BOG Meeting date / time / place.
- Friday, March 10th @ 7:30 AM, Day Automation Office
29. Adjourn - 8:55 am



# ASHRAE Student Membership Application

## What You'll Get With Your ASHRAE Student Membership!

### What's "Cool" In ASHRAE

- ASHRAE promotes energy efficiency, savings and recovery
- ASHRAE reports on building controls, automation and integration
- ASHRAE focuses on green building issues and green technology
- ASHRAE maintains standards for indoor air quality
- ASHRAE promotes solar and other alternative energy sources
- ASHRAE offers certification programs, online learning opportunities and courses and seminars at ASHRAE Conferences

### How Can ASHRAE Help You?

- Provide access to new technology
- Offer professional development opportunities
- Create opportunities for networking
- Offer online continuing education programs and eLearning programs

### Student Member Benefits

- Access to members-only web pages
- Discounts on ASHRAE Handbooks
- Monthly ASHRAE Journal - print and digital
- HVAC&R Industry and Society Connections eNewsletters
- Complimentary ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Virtual online HVAC&R resume posting, job and internship searching program

### ASHRAE Student Member Opportunities

- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications, go to [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) for more information
- Student Design Competition
- Networking with local ASHRAE Chapters
- Senior Undergraduate Project Grant Program
- At the student branch level, you'll enjoy meeting other students with similar interests - if your school hasn't yet started a student branch, take charge and contact a faculty member and ask for help on getting started!

You can continue your student membership after college with the ASHRAE SmartStart Program. After you graduate, you pay \$20 for the first year, \$50 for the second and the third years before advancing to regular member dues!

**Join ASHRAE students on Facebook  
Visit [www.ashrae.org/students](http://www.ashrae.org/students) to join!**



**ASHRAE**  
STUDENT MEMBERSHIP APPLICATION

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.  
ASHRAE • 1791 TULLIE CIRCLE NE • ATLANTA, GA 30329-2305 • FAX: 678-539-2212

FIRST NAME:

LAST NAME:

DATE OF BIRTH (mm/dd/yyyy)

Current Mailing Address: (this will be where all correspondence will be sent unless otherwise specified)

Street Address: \_\_\_\_\_ Apt. # \_\_\_\_\_ City: \_\_\_\_\_  
State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
Email: \_\_\_\_\_ Alternate email: \_\_\_\_\_ Phone: \_\_\_\_\_

Permanent Mailing Address: (during the Summer Months and after graduation)

Check if Current Address is the same as Permanent Address

Street Address: \_\_\_\_\_ Apt. # \_\_\_\_\_ City: \_\_\_\_\_  
State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
Email: \_\_\_\_\_ Alternate email: \_\_\_\_\_ Phone: \_\_\_\_\_

ASHRAE protects contact information provided by its members and customers. To view ASHRAE's privacy policy visit [www.ashrae.org/privacy-policy](http://www.ashrae.org/privacy-policy).

All student applicants must have the name and member number of an ASHRAE member serving as their student sponsor. If your Student Branch Advisor is an active Associate or Full member, he/she can serve as your sponsor. If you need assistance locating a sponsor, please email [students@ashrae.org](mailto:students@ashrae.org) or call 678-539-1212. Also, you must list the name, phone and email address of your faculty advisor or course instructor.

Sponsor Name: \_\_\_\_\_ ASHRAE Member #: \_\_\_\_\_  
Advisor/Instructor: \_\_\_\_\_ Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

To receive your subscription to the ASHRAE Journal, please answer the following questions by entering the appropriate codes in the spaces provided.

Which best describes your firm? \_\_\_\_\_

- 11. Consulting Engineering
- 12. Architect/Architectural & Eng Services
- 15. Design/Build
- 21. Contractor
- 26. Property Mgmt & Dev
- 31. Industrial Facility
- 41. Commercial Facility
- 42. Government, Healthcare, Education
- 43. Utility
- 51. Manufacturer/HVAC&R Equipment
- 61. Manufacturer's Representative
- 62. Sales Engineering
- 71. Wholesaler or Distributor
- 83. Library
- 84. Technical, Professional or Trade Association
- 86. Student \*\*\*
- 91. Other (Please Specify) \_\_\_\_\_

Which best describes your title? \_\_\_\_\_

- B. President
- C. Partner
- D. Associate
- E. Owner
- F. Vice President
- G. Vice President Eng, Chief Engineer
- K. Design Engineer
- L. Project/Application Engineer
- O. Facility Engineer/Manager
- P. Research/Development Engineer
- R. Sales Engineer, Sales
- S. Purchasing Agent
- T. Draftsperson
- U. Estimator
- W. Technician
- X. Instructor, Professor
- Y. Student \*\*\*
- Z. Librarian
- ZZ. Other (Please Specify)

ASHRAE Society Dues include \$6.00 for ASHRAE Journal. This amount is not deductible from Membership dues.

I would like to participate in the activities of the \_\_\_\_\_ ASHRAE Chapter.

School Name: \_\_\_\_\_

Street Address: \_\_\_\_\_ City \_\_\_\_\_ State: \_\_\_\_\_

Country: \_\_\_\_\_ Postal Code \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Full time:  Part time:  Degree: \_\_\_\_\_

\*Classification: Freshman  Sophomore  Junior  Senior  Masters/PhD.

ASHRAE Student Membership \$20.00 USD

ASHRAE Handbook - Fundamentals  IP  SI

(you will receive the most current edition of Fundamentals)

More than 900 pages of HVAC&R technical information and it includes the CD! (List Price \$195)

Student Member Price: \$49.00 USD \$ \_\_\_\_\_ USD

Total \$ \_\_\_\_\_ USD

\*Additional books are available at [ashrae.org/studentbookstore](http://ashrae.org/studentbookstore)

\*Please allow up to 30 days to receive new member packets. For U.S. book orders, allow 3-5 business days from processing. For international locations and Canada, allow 7-10 business days from processing.

\*\*Please complete the ENTIRE application to ensure accuracy. Incomplete applications will NOT be processed.\*\*

Method of payment:  VISA / Master Card  American Express  Diner's Club  Check or money order enclosed\*

Card Number: \_\_\_\_\_ Expiration Date \_\_\_\_\_ CW No. \_\_\_\_\_ Amount: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name (as it appears on card): \_\_\_\_\_

\*Checks will be accepted in U.S and Canadian funds. Credit Card payments will be accepted in U.S. funds only.





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<http://eweb.ashrae.org/eweb/DynamicPage.aspx?webcode=hbo&site=handbook>

# Upcoming 2017 Online Courses

Online instructor-led courses presented in real-time from ASHRAE Learning Institute  
CEU/PDH Credits Available



## Two Ways To Register

**\$284 (ASHRAE Member \$219)**

**Two-part courses: \$484  
(\$359 ASHRAE Member)**

### **1. Internet**

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

### **2. Phone**

Call toll-free at  
1-800-527-4723 (US and Canada) or  
404-636-8400 (worldwide)

## Online Courses Scheduled Later in the Year Register Now to Reserve Your Seat

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

Thur, March 9, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

### **Commissioning Process in New & Existing Buildings**

Part 1 - Mon, March 13, 2017, 1:00 pm to 4:00 pm, EDT

Part 2 - Wed, March 15, 2017, 1:00 pm to 4:00 pm, EDT

*(Registrants must attend both parts in order to receive credits)*

**Instructor:** Rick Casault, P.E., Member ASHRAE

### **Design of Affordable and Efficient Ground Source Heat Pump Systems**

Wed, March 29, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Steve Kavanaugh, Ph.D., Fellow ASHRAE

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

Wed, April 5, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Joe Deringer, AIA, Member ASHRAE, LEED® AP

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

Tues, April 11, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** McHenry Wallace, P.E., Member ASHRAE, LEED® AP

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

Tues, April 18, 2017, 1:00 pm to 4:00 pm, EDT

**Instructors:** McHenry Wallace, P.E., Member ASHRAE, LEED® AP  
and Joe Deringer, AIA, Member ASHRAE, LEED® AP

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

Wed, May 3, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Paul Pieper, P.Eng., Member ASHRAE

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

Tues, May 9, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Paul Pieper, P.Eng., Member ASHRAE

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

Tues, June 13, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Lew Harriman, Fellow ASHRAE

## Online Courses Scheduled Later in the Year Register Now to Reserve Your Seat

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

Tues, June 20, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Lew Harriman, Fellow ASHRAE

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

Tues, July 11, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Thomas Leck, Ph.D., P.E., Member ASHRAE

### **Advanced High-Performance Building Design**

Wed, August 9, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Jeff Ross-Bain, P.E., Member ASHRAE

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

Wed, September 6, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

### **Designing High-Performance Healthcare HVAC Systems**

Tues, September 19, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** Dan Koenigshofer, P.E., Member ASHRAE, HFDP

### **Laboratory Design: The Basics and Beyond**

Tues, October 10, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** John Varley, P.E., Member ASHRAE, HBDP, LEED® AP

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

Mon, October 16, 2017, 1:00 pm to 4:00 pm, EDT

**Instructor:** William Bahnfleth, Ph.D., P.E., Presidential/Fellow ASHRAE

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

Part 1 - Wed, November 1, 2017, 1:00 pm to 4:00 pm, EDT

Part 2 - Tues, November 7, 2017, 1:00 pm to 4:00 pm, EST

*(Registrants must attend both parts in order to receive credits)*

**Instructors:** McHenry Wallace, P.E., Member ASHRAE, LEED® AP  
and Joe Deringer, AIA, Member ASHRAE, LEED® AP

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

Tues, December 5, 2017, 1:00 pm to 4:00 pm, EST

**Instructor:** Thomas Leck, Ph.D., P.E., Member ASHRAE



# Region I Officers



## REGION I COMMITTEE CHAIR CONTACT INFORMATION

Position	First	Last	Company	Address Line	City	State	Post Code	Phone	Email
Region Director and Regional Chair	William	Walter	Carrier Corporation	6304 Thompson Rd	Syracuse	NY	13221	(315)432-6267	<a href="mailto:r01drc@ashrae.net">r01drc@ashrae.net</a>
Region Assistant Regional Chair	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	<a href="mailto:r01arc@ashrae.net">r01arc@ashrae.net</a>
Region Members Council Rep	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	<a href="mailto:r01RMCR@ashrae.net">r01RMCR@ashrae.net</a>
Region Treasurer	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	<a href="mailto:r01tr@ashrae.net">r01tr@ashrae.net</a>
Region Grassroots Government Advocacy	Richard	Vehlow	NYS OGS Design	10 Catherine Pl	Latham	NY	12110-5204	(518)474-2471	<a href="mailto:r01GGAC@ashrae.net">r01GGAC@ashrae.net</a>
Region Chapter Technology Transfer	Christopher	Phelan	Thermco	228 Scoles Ave	Clifton	NJ	07012-1126	(973)777-6700	<a href="mailto:r01rvcttc@ashrae.net">r01rvcttc@ashrae.net</a>
Region Membership Promotion	Lee	Feigenbaum						(347)533-0161	<a href="mailto:r01rvcm@ashrae.net">r01rvcm@ashrae.net</a>
Region Research Promotion	Andrew	Manos	Stony Brook University	17 Horton St	West Islip	NY	11795-1039	(516)413-0214	<a href="mailto:r01rvcrp@ashrae.net">r01rvcrp@ashrae.net</a>
Region Student Activities	Steven	Sill	New York State Office of People with Developmental Disabilities	2930 State Route 104A	Sterling	NY	13156-4253	(718)494-5133	<a href="mailto:r01rvcsa@ashrae.net">r01rvcsa@ashrae.net</a>
Region Regional Historian	Stanley	Westhoff	Unilux Advanced Manufacturing LLC	18 Santee Dr	Gansevoort	NY	12831-1322	(518)587-1949	<a href="mailto:r01hist@ashrae.net">r01hist@ashrae.net</a>
Region YEA	Chonghui	Liu				NY		(315)956-6533	<a href="mailto:r01yea@ashrae.net">r01yea@ashrae.net</a>
Region Nominating Committee Member	Russell	Stuber	U & S Services Inc	95 Stark St	Tonawanda	NY	14150-1210	(716)693-4490	<a href="mailto:r01nom@ashrae.net">r01nom@ashrae.net</a>
Region Nominating Committee Alternate	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	<a href="mailto:r01noma@ashrae.net">r01noma@ashrae.net</a>
Region CRC General Chair	Jim	Browe						(585)697-0836	<a href="mailto:R01CRCChair@ashrae.net">R01CRCChair@ashrae.net</a>



## REGION I CHAPTER PRESIDENT CONTACT INFORMATION

Chapter #	Chapter Name	First	Last	Company	Address Line1	City State Zip	Phone	Email Address
001	BOSTON	William	Tang	BR+A Consulting Engineers	170 Clocktower Dr Unit 304	Waltham, MA 02452-7878	(617)925-8288	<a href="mailto:c001@ashrae.net">c001@ashrae.net</a>
003	RHODE ISLAND	Paul	Reddington	Victaulic Company	26 Prairie Ct	Manchester, NH 03102-4964	(508)878-9159	<a href="mailto:c003@ashrae.net">c003@ashrae.net</a>
004	CONNECTICUT	Brandon	Bradley	ABCO HVACR Supply + Solutions	515 Old Tolland Tpke	Coventry, CT 06238-1857	(203)325-9000	<a href="mailto:c004@ashrae.net">c004@ashrae.net</a>
006	LONG ISLAND	Donald	Kane	Nassau Suffolk Engineering & Architecture	45 Swallow Ln	Brentwood, NY 11717-1344	(631)737-9170	<a href="mailto:c006@ashrae.net">c006@ashrae.net</a>
007	NEW JERSEY	Dorrie	Mercurio		75 South St	Freehold, NJ 07728-2317	(732)761-0108	<a href="mailto:c006@ashrae.net">c006@ashrae.net</a>
008	NEW YORK	Jose	Rodriguez	Wallace Eannace Associates	779 Susquehanna Ave	Franklin Lakes, NJ 07417-1321		<a href="mailto:c008@ashrae.net">c008@ashrae.net</a>
009	NORTHEAST	David	Houle	EME Consulting Engineering Group	292 Washington Avenue Ext Ste 109	Albany, NY 12203-6385	(518)862-0882	<a href="mailto:c009@ashrae.net">c009@ashrae.net</a>
010	CENTRAL NEW YORK	Mark	Yonnick	FW Webb Co	6792 Townline Rd	Syracuse, NY 13211-1911	(315)476-9322	<a href="mailto:c010@ashrae.net">c010@ashrae.net</a>
011	ROCHESTER	Jeffrey	Close	PRES Energy Engineering	3777 Dewey Rd	Shortsville, NY 14548-9725	(585)289-6816	<a href="mailto:c011@ashrae.net">c011@ashrae.net</a>
012	NIAGARA FRONTIER	Becca	Hojnacki	ECON Technologies	2640 Walden Ave	Buffalo, NY 14225-4736	716-693-4490	<a href="mailto:c012@ashrae.net">c012@ashrae.net</a>
111	CHAMPLAIN VALLEY	Blaine	Conner	Vermont Mechanical Inc.	1 School St Apt 6	Montpelier, VT 05602-2912	(802)343-8644	<a href="mailto:C111@ashrae.net">C111@ashrae.net</a>
118	MAINE	Rachel	Riley	Sweeney Rogers Geraghty Incorporated	215 E Grand Ave Apt 305	Old Orchard Beach, ME 04064-3028	(207)460-0076	<a href="mailto:C118@ashrae.net">C118@ashrae.net</a>
129	TWIN TIERS	Travis	Fisher	Cornell University	51A Goodrich Rd	Owego, NY 13827-1552	(607)255-5608	<a href="mailto:C129@ashrae.net">C129@ashrae.net</a>
146	BI-STATE	Brendan	Smith		33 Beach Rd	Ossining, NY 10562-3201	(914)741-1290	<a href="mailto:C146@ashrae.net">C146@ashrae.net</a>
152	GRANITE STATE	Paul	Bemis	Applied Math Modeling Inc	75 S Main St Unit 7 PMB 144	Concord, NH 03301-4865	(603)369-6085	<a href="mailto:C152@ashrae.net">C152@ashrae.net</a>

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## REGION I CHAPTER NEWSLETTER CONTACT INFORMATION

Chapter #	Chapter Name	First	Last	Company	Address Line1	City State Zip	Phone	Email Address
001	BOSTON	Deanna	Adkison	AKF Group	197 Lothrop St	Beverly, MA 01915-3763	(617)535-8236	<a href="mailto:c001ne@ashrae.net">c001ne@ashrae.net</a>
004	CONNECTICUT	Nichole	Petersen	Flow Tech Inc	10 Bidwell Rd	South Windsor, CT 06074-2412	(860)291-8886	<a href="mailto:c004ne@ashrae.net">c004ne@ashrae.net</a>
006	LONG ISLAND	Liset	Cordero	MG Engineering DPC	170 Horton Ave	Valley Stream, NY 11581-1439	(212)643-9055	<a href="mailto:c006ne@ashrae.net">c006ne@ashrae.net</a>
007	NEW JERSEY	Adele	Glaser	Trane	19 Chapin Rd Bldg B Suite 200	Pine Brook, NJ 07058-9385	(973)244-7731	<a href="mailto:c006ne@ashrae.net">c006ne@ashrae.net</a>
011	ROCHESTER	Scott	Edwards	Johnson Controls	31 Barkwood Ln	Spencerport, NY 14559-2249	(585)301-6591	<a href="mailto:c011ne@ashrae.net">c011ne@ashrae.net</a>
012	NIAGARA FRONTIER	Varun	Kulkarni	Zehnder Rittling	100 Rittling Blvd	Buffalo, NY 14220-1885	(405)385-1928	<a href="mailto:c012ne@ashrae.net">c012ne@ashrae.net</a>
129	TWIN TIERS	Andrew	Nice	Meier Supply Co.	275 Broome Corporate Pkwy	Conklin, NY 13748-1511	(607)797-7700	<a href="mailto:C129ne@ashrae.net">C129ne@ashrae.net</a>

### Email Address:

c001ne@ashrae.net; c003ne@ashrae.net; c004ne@ashrae.net; c006ne@ashrae.net; c007ne@ashrae.net; c008ne@ashrae.net; c010ne@ashrae.net; c011ne@ashrae.net; c012ne@ashrae.net; c111ne@ashrae.net; c118ne@ashrae.net; c129ne@ashrae.net; c146ne@ashrae.net; [c152ne@ashrae.net](mailto:c152ne@ashrae.net)



## REGION I CHAPTER WEBMASTER CONTACT INFORMATION

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001	BOSTON	Kevin	Doty	Victaulic	12 Mohawk St Unit 9	Boston, MA 02127-3594	(484)523-8908	<a href="mailto:c001web@ashrae.net">c001web@ashrae.net</a>
007	NEW JERSEY	Dorrie	Mercurio		75 South St	Freehold, NJ 07728-2317	(732)761-0108	<a href="mailto:c006web@ashrae.net">c006web@ashrae.net</a>
008	NEW YORK	Gaspar	Cabrera	YR&G	163 W 23rd St	New York, NY 10011-2465	(917)783-0166 (917)7830166	<a href="mailto:c008web@ashrae.net">c008web@ashrae.net</a>
011	ROCHESTER	Stephen	Dear	Crosby Brownlie Inc	100 Nassau St	Rochester, NY 14605-1955	(585)730-2599	<a href="mailto:c011web@ashrae.net">c011web@ashrae.net</a>
012	NIAGARA FRONTIER	James	Price		1021 Klein Rd	Williamsville, NY 14221-1923	(716)645-5516	<a href="mailto:c012web@ashrae.net">c012web@ashrae.net</a>
118	MAINE	Stephan	Becker	SMRT	144 Fore St	Portland, ME 04101-4843	(207)772-3846	<a href="mailto:C118web@ashrae.net">C118web@ashrae.net</a>
129	TWIN TIERS	Michael	Colwell	Tri Cities Temperature Ctl Inc	122 Park Ave	Binghamton, NY 13903-3227	(607)724-8282	<a href="mailto:C129web@ashrae.net">C129web@ashrae.net</a>

### Email Address:

c001web@ashrae.net; c003web@ashrae.net; c004web@ashrae.net; c006web@ashrae.net; c007web@ashrae.net; c008web@ashrae.net; c010web@ashrae.net; c011web@ashrae.net; c012web@ashrae.net; c111web@ashrae.net; c118web@ashrae.net; c129web@ashrae.net; c146web@ashrae.net; [c152web@ashrae.net](mailto:c152web@ashrae.net)

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# News

1791 Tullie Cir. NE | Atlanta, Ga. 30329-2305 | 404-636-8400 | [www.ashrae.org](http://www.ashrae.org)

For Release:  
Feb. 9, 2017  
Contact: Jodi Scott  
Public Relations  
678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

## Las Vegas Proves Big Winner for ASHRAE, AHR Expo and Industry

ATLANTA – The 2017 ASHRAE Winter Conference and the AHR Expo saw record attendance with industry collaboration a strong focus of the events.

The 2017 ASHRAE Winter Conference took place Jan. 28-Feb. 1 at Caesars Palace with the ASHRAE co-sponsored AHR Expo held Jan. 30-Feb. 1 at the Las Vegas Convention Center. The two events exceeded their record-breaking attendance from the Conference and Expo that were held in Las Vegas in 2011.

In total, 3,579 people attended the Conference, making it the most well attended Winter Conference in recent years. The attendees represented 58 countries and included 537 first-timers.

The AHR Expo set several records, including attendance of more than 68,000 registered visitors and exhibitor personnel, as well as 500,159 square feet sold. The Show was by far the largest and best attended Expo in the Western states, with some 1,968 exhibiting companies.

The Conference also saw several collaborative efforts and agreements with associations and organizations from around the world.

“Partnering with allied organizations and associations better allows us to harness and adapt new technologies, which we can all use in working toward a more sustainable environment,” ASHRAE President Tim Wentz said. “By working together, we can create a worldwide best practices databank of innovative and successful technologies that can serve the built environment community.”

ASHRAE signed memoranda of understanding with several groups, including the United Nations Development Programme (UNDP), the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) and Association of German Engineers (VDI-GBG). The Society also signed a strategic partnership agreement with the Chartered Institution of Building Services Engineers (CIBSE) and the Federation of European Heating, Ventilation and Air-Conditioning Associations (REHVA). In addition, it updated its Work Plan with the United Nations Environmental Programme (UNEP). As part of the event, the Clean Climate and Air Coalition (CCAC) held a Sustainable Technologies for Stationary Air Conditioning Workshop focused on climate-friendly and cost-effective air conditioning technologies. ASHRAE is an actor with CCAC.

At the Conference, Wentz provided updates on several Society initiatives and programs of importance to the industry. Among them was creation of a new ‘ASHRAE University’ educational platform, which will locate all of ASHRAE’s educational products in one place where users can select the products to meet their professional goals. Additionally, a personal dashboard is built into the new platform allowing users to track their progress toward their goals. The new platform can be found at [www.ashrae.org/elearning](http://www.ashrae.org/elearning).

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# News

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## Las Vegas Proves Big Winner for ASHRAE, AHR Expo and Industry

### *See previous page for continuation*

ASHRAE also has launched a new Technology Portal at [www.ashrae.org/technologyportal](http://www.ashrae.org/technologyportal). This gives ASHRAE members an easy, fast method of connecting to the latest information generated by ASHRAE's research program. It serves a central body of knowledge for ASHRAE technology and research products. It provides access to more than 1,700 Journal articles published since 1997 and more than 600 final reports from ASHRAE research projects.

Wentz, an associate professor at the University of Nebraska – Lincoln, also shared an update on a new, online internship job board. The new internship portal is found on ASHRAE's website at <http://jobs.ashrae.org>.

"I am big supporter of internship programs in that they are the easiest and most effective way to show students the importance of our work and why we are so passionate about what we do," he said. "Check it out and start looking for the next generation of engineers for your firm."

The Conference Bookstore featured several new standards of importance to the industry, including ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, ANSI/ASHRAE 15-2016, *Safety Standard for Refrigeration Systems*, and its sister standard, ANSI/ASHRAE 34-2016, *Designation and Safety Classification of Refrigerants*, as well as User's Manuals for ANSI/ASHRAE Standard 62.1-2016, *Ventilation for Acceptable Indoor Air Quality* and ANSI/ASHRAE Standard 62.2-2016, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*.

The ASHRAE Learning Institute saw overall record attendance with top attended courses being Variable Refrigerant Flow System: Design & Applications, Designing High-Performance Healthcare HVAC Systems, Understanding & Designing Dedicated Outdoor Air Systems, Laboratory Design: The Basics and Beyond, and Designing Toward Net-Zero Energy Commercial Buildings.

The Technical Program featured some 350 presentations and 300 speakers. Top attended sessions included Blue Is the New Green: The Water-Energy "Next Is," Did It Really Work: Theory vs. Practice in Residential HVAC, Hydronic Water Flow Measurement, Recent Research in Data Center Cooling, When Good Valve Sizing Goes Bad, What Fire and Safety Engineers Have Learned Since the MGM Grand Fire in Las Vegas and What Are Present Day Fire and Life Safety Codes and Applications, Fresh Insights on Building Automation: A Seminar by the YEA Group, Modern Optimization Techniques for Hydronic Systems in Data Centers, Advancements in Ground Source Heat Pump Design, Energy Management: A Crucial Component of Operations and Maintenance, Commissioning a Central Chilled Water Plant and Data Driven Energy Auditing, Measurement and Verification.

The 2017 ASHRAE Annual Conference will take place June 24-28 in Long Beach, Calif., with the 2018 Winter Conference Jan. 20-24, and the AHR Expo, Jan. 22-24, in Chicago, Ill.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 57,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).

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## **Preliminary Energy Savings Announced for ASHRAE/IES 2016 Energy Standard**

ATLANTA – More than 30 percent energy savings can be achieved using the 2016 version of Standard 90.1, according to recent analysis conducted by Pacific Northwest National Laboratories (PNNL) in support of the U.S. Department of Energy (DOE) Building Energy Codes Program.

An update on the preliminary results of the 90.1-2016 progress indicator report was made at the recent 2017 ASHRAE Winter Conference. ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Efficiency Standard for Buildings Except Low-Rise Residential Buildings*, was published in October 2016.

PNNL conducted the energy savings analysis, using the 2004 standard as baseline. These results are considered preliminary and are expected to be deemed final in October 2017 when DOE publishes its final determination. PNNL's analysis shows for the whole building energy consumptions, national aggregated site energy savings are 34.1 percent and energy cost savings are 34.2 percent, when compared to the 2004 standard.

"For more than 40 years, ASHRAE and IES members have strived to build upon the energy savings measures in each update of Standard 90.1, most recently released in its 10<sup>th</sup> edition," Tim Wentz, ASHRAE president, said. "Each year the challenge grows as technology becomes more efficient. That we continue to build upon the savings speaks to the ability of our industry to adapt and transform as those technologies change and more advanced technologies become more cost effective."

"The Illuminating Engineering Society has actively engaged with ASHRAE since 1975 providing technical support and co-developing standards," Mark Lien, IES Industry Relations Manager and liaison to the Standard 90.1 committee, said. "Compliance with recommended light levels is verified using a database of luminaires. These baseline products were reevaluated and updated to reflect the market shift toward higher efficiency lighting sources. We are proud of the dedicated members of the Lighting Subcommittee and the Standard 90.1 committee and their significant contribution to the energy savings achieved by the 2016 version."

--On a nationally aggregated level, building-type energy savings range from 11.9 percent (fast food restaurants) to 48.6 percent (schools) and energy-cost savings from 15.3 percent (large offices) to 49.8 percent (schools). These figures include energy use and cost from the whole building energy consumptions including plug and process loads.

Sixteen different building prototypes were modeled in 17 different climate locations for a total of 272 building types in various climate zones that were incorporated into this analysis.

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The energy reduction calculation was achieved through more than 120 addenda incorporated in the standard related to changes to requirements. The major changes in those addenda:

- updated controls for emergency lighting
- improved window U-factor and solar heat gain coefficient
- improved coiling door air leakage requirements
- updated parking lot occupancy controls
- updated opaque door U-factor
- established minimum chilled water systems coil selection Delta T
- updated transformer efficiency requirements
- added domestic hot water branch insulation
- reduced heat rejection variable frequency drive (VFD) threshold
- raised minimum exhaust air energy recovery threshold
- reduced exterior and interior lighting allowances
- updated fenestration orientation
- included service factor in heat rejection VFD threshold
- updated motor efficiencies
- improved hotel/motel guest room control
- reduced pumping VFD threshold
- required high efficiency dwelling unit lighting
- reduced retail lighting adder
- eliminated computer room economizer threshold
- removed ventilation optimization exception for energy recovery ventilator
- updated transfer air requirements
- updated climate zones