



VOLUME 11, ISSUE 9

APRIL 2017

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April ASHRAE Meeting

Topic: Refrigeration Night

Presenters: Peter Brennan and Mike Nohle

When: April 10th, 2017

Where: 5:30pm Dinner at SUNY Brockport
Cooper Hall 113 Adams St Brockport

6:30pm Presentation

7pm tour at Allied Frozen Storage
260 State St Brockport, NY

Cost: \$25.00



Please RSVP by noon Friday, April 7th to Tim Duprey
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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(585) 289-6816
jeff.close@pres-services.com

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Buyer's Guide

Branden Farnsworth-Weinblatt, PE
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bfweinblatt@popligroup.com

ASHRAE 2016-2017 Meeting Schedule			
Date	Event	Theme	Location
Monday, 4/10/2017	Refrigeration Tour at Allied Foods	Refrigeration Night (1 PDH Approved)	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 April Message

April Newsletter 2017
President's Message

Our meeting in March was on "ASHRAE Building Energy Quotient (bEQ)" presented by Hoy Bohanon, PE (ASHRAE Distinguished Lecturer). The turnout was great, thanks to everyone who attended.

On Monday, March 3rd, 2017 the Rochester ASHRAE Chapter attempted to host our 1st Annual ASHRAE Snow Day at Hunt Hollow. Unfortunately, mother nature had other plans. A special thanks to George Herman for organizing this event and hope that we can pull it off next year.

The Engineering Symposium in Rochester is scheduled for April 18, 2017 at the Hyatt Downtown. This even will offer multiple seminars that could total (7) professional development hours. ASHRAE is sponsoring the following (3) seminars; "Operating Room Air Distribution Solutions", "Principles of Laboratory Design and Fume Hood Operation", and "You Can't Afford Discomfort".



Jeff Close, 2016-2017 President

In April our Chapter Meeting will be touring "Allied Foods" in Brockport. The host for the night will be Pete Brennan with Crosby-Brownlie. Dinner is planned to follow at Brockport College.

Please continue to check out our website at 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.

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

April 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.

April ASHRAE Meeting << PDH APPROVED>>

Date: Monday, April 10th, 2017

Location: SUNY Brockport & Allied Frozen Storage

Time: 5:30pm Dinner at SUNY Brockport 113 Adams St

6:30pm Presentation

7pm at Allied Storage 260 State St Brockport, NY

Cost: \$25.00

Speakers: Peter Brennan and Mike Nohle

Topic: Refrigeration Tour

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.

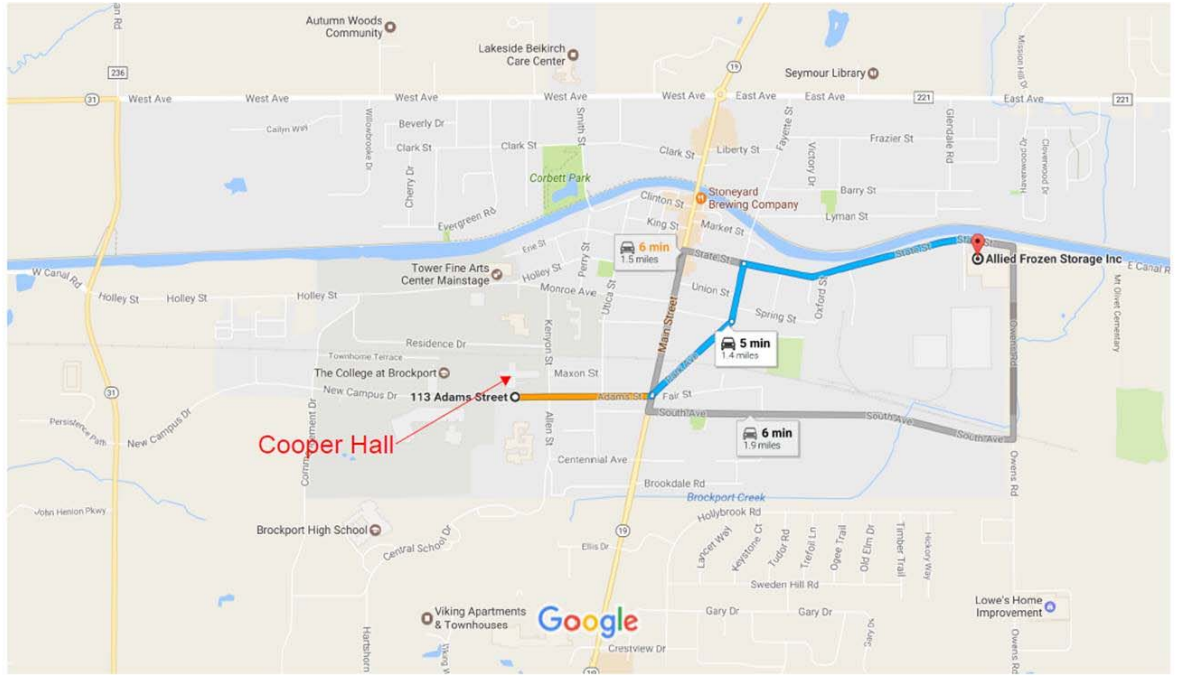
Please RSVP no later than noon Friday April 7th to Tim Duprey

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

April Meeting Info



113 Adams St, Brockport, NY 14420 to Allied Frozen Storage Inc Drive 1.4 miles, 5 min
Storage Inc



Map data ©2017 Google 1000 ft

113 Adams St

Brockport, NY 14420

- ↑ 1. Head east on Adams St toward Kenyon St 0.3 mi
- ↩ 2. Turn left onto Main St 23 ft
- ↗ 3. Slight right onto Park Ave 0.3 mi
- ↩ 4. Turn left to stay on Park Ave 0.1 mi
- ↘ 5. Turn right onto State St 0.6 mi
📘 Destination will be on the right

Allied Frozen Storage Inc

260 State St, Brockport, NY 14420

Highlights from March ASHRAE Meeting



March's ASHRAE Meeting featured ASHRAE Distinguished Lecturer Hoy Bohanon, PE on a discussion on Building Energy Quotient. The 50/50 Raffle was won by Scott Edwards and his winnings was donated back to Research Promotion.





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.

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: 2425
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 1150
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 1050
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 485
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 1825
▶ RP	Par: 1050	Min Points: 800	Total Points: 850
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 1645

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. 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 1st, 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 with any questions, to receive an application form, for a sample application or any other concerns.

Membership Promotion

ASHRAE Rochester Chapter- Membership Promotion

We have new members, if you have an opportunity, please welcome them!

Cody Jones

Dyllyn Salathiel

Chris Sprague

James Parks

Cody Stevens

Scott Prindle

Art Wroblewski

Stephanie Samuel


Donald Lucas

Travis DeWeese

Melissa Gilbert

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

Sincerely,



ASHRAE
Rochester
Chapter

Membership Promotion

Join Online
ashrae.org/membership

ASHRAE Rochester Chapter
Rochester.ashraechapters.org

Michael Benedict
(585) 490-2661
mike@airsystemsbalancing.com

Student Activities

Opportunities for ASHRAE Student Members

One of the fundamental goals of ASHRAE is to provide opportunities for young Student Members to learn and grow.

Among these opportunities is an Undergraduate Grant, available to college students to use for funding various projects. This allows students to find new solutions to problems while significantly contributing to the ASHRAE Society as a whole.

Locally, this funding has been utilized by Rochester Institute of Technology to support their project studying “Biothermal Heating of Greenhouses with Thermal Storage for Northern Climates.” Specifically, the project team will be designing and building a greenhouse heated using thermal energy from compost. The undergrad design team includes six RIT students from the Mechanical Engineering, Electrical Engineering and Industrial Engineering Departments. This is part of their Senior Design Project and will be displayed at various campus events when completed.

A link to the ASHRAE Undergraduate Grant website is listed below:

<https://www.ashrae.org/membership--conferences/student-zone/scholarships-and-grants/about-undergraduate-program-equipment-grants>

Want to learn more about Student Membership and Opportunities to reach out to the future engineers in our community? Please reach out to me directly at rhudson@ibceng.com.

Rob Hudson, PE

Student Activities Chair

Young Engineers in ASHRAE

Leadership Weekend in Denver

YEA Leadership Weekend was March 3-5 in Denver. Below are reports from (2) of our local engineers and their experiences in attending:

There are a lot of good things to say about this program. The speaker Ralph Kison was fantastic and has obviously been very successful doing what he does for a long time. He is a great professional coach and had a lot of good insight to share. We learned about our own personalities and how to effectively work with others that may have very different personalities.

We also discussed what makes a business successful in general, and how we can become the next leaders of our industry. The difference between a leader and a manager is important, and can make all the difference when it comes to level of success individually and as a company.

The social aspect of the weekend was definitely a plus. We met a lot of good people from all over the county. Great networking experience!

Dave Zimmer, EIT
PRES Energy | *Project Engineer*

By being given the privilege to attend the ASHRAE YEA Leadership Weekend in Denver, I was able to gain invaluable knowledge and insight that will help me to move my career in a positive direction. The program focused on identifying various personality types and applying techniques to effectively and efficiently collaborate and coordinate. Highlights include:

- Meeting young engineers from all corners of the United States, specializing in consulting, product development, sales, and construction management.
- Doing exercises to recognize personal strengths and weaknesses, and then determining how these attributes may impact working with others.
- Exploring downtown during a team scavenger hunt that facilitated teamwork and creativity.
- Sharing work-related and non-work-related experiences with peers to help gain perspective from an unfamiliar point of view.
- Admiring the scenic backdrop of 14,000-foot mountains always within view
- The cookies at the hotel.

I very much enjoyed my time at YLW, and feel I can use many of the skills and insights gained from the weekend both right away and in the more distant future. I am very appreciative of the opportunity to participate in the event, and I would like to thank the members of ASHRAE, especially in the Rochester Chapter, for making this possible, as well as the chapter chairs who had a direct role in helping me attend.

Mike Dobbertin
Turner Engineering | *Project Engineer*

Research Promotion

Springtime is fast approaching and the 2016-2017 Fundraising Campaign will be coming to a close in a little over 2 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 are in the planning phase for our 2nd Annual 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

Research Promotion





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

Address where you would like your picnic tickets sent to:

Company: _____

Contact Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (Work) _____ (Home) _____

Ticket Request Form

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



2016 ASHRAE PICNIC SPONSORSHIP FORM

Monday May 8, 2017

 <p>RAVENWOOD 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 & 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 ASHRAE 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

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

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

Sponsorship Form		
<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
Total Check Amount:		

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

March 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	
Immediate Past President & Nominating	Chris Walter	X
Board of Gov. (3) & Attendance Chair	Tim Duprey	phone
Board of Gov. (3) / Buyers Guide	OPEN	
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	
Newsletter Editor	Scott Edwards	
Resource Promotion Chair (RP)	Matt Devlin	
Awards & Recognition Chair	Al Rodgers	
Chapter Technology Transfer Chair (CTTC)	Jeff Wiedrick	
Education	Bill Murray	
Publicity	Mark Kukla	
YEA Chair (Young Engineers in ASHRAE)	Matt Kremers	phone

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

March 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	phone
Picnic/Golf Chair & CRC 2016 Committee Chair	Jim Browe	
Valentine's Dinner Dance	Jody McGarry	phone
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 (as of 2/9) Paul Kenna
 - Main Checking = \$30,480.31
 - Paypal Checking = \$4,444.65
 - Charles Lynch Fund = \$41,978.62
5. President Elect/Program Bill Clark
 - MAR = DL speaker, Hoy Bohanon
 - Submit DL speaker evaluation
6. Attendance Tim Duprey
 - 55 attendees at February meeting.
 - i. 19 non-members attending.
 - ii. 5 first time visitors.
 - ~45 current reservations for March meeting.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

March 10, 2017 @ 7:30 AM

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

- | | |
|---|---------------|
| 7. CTTC Report | Jeff Wiedrick |
| <ul style="list-style-type: none"> • Project submission by May 1, 2017. • Submit newsletter article on submission categories | |
| 8. Membership Report | Mike Benedict |
| <ul style="list-style-type: none"> • 271 Total members (29 students) • Non-student Membership down (3) from February and down (5) from July 2016. • Membership upgrades up (30) from July 2016 • New members to be included in newsletter distribution. | |
| 9. Student Activities Report | Rob Hudson |
| <ul style="list-style-type: none"> • Scheduled meetings with MCC and RIT • Engineer's week went extremely well • Share list of student members contact information | |
| 10. Education Report | Bill Murray |
| <ul style="list-style-type: none"> • Scholarship <ul style="list-style-type: none"> i. Jeff to discuss with financial aid company about options ii. Jeff to review original scholarship intent and present options | |
| 11. YEA Report | Matt Kremers |
| <ul style="list-style-type: none"> • Leadership weekend (3-attendees) - each will prepare a newsletter submission • Future site visit - ETL Lab in Cortland, date TPD (April). • Future Tech Session - Possibly June. | |
| 12. Awards & Recognition Report | Al Rodgers |
| <ul style="list-style-type: none"> • 50 year member. • Possible Distinguished Service award - Pete Oppelt. • Looking for Realto Cherne nominee. | |
| 13. Resource Promotion Report | Matt Devlin |
| <ul style="list-style-type: none"> • \$12,020 Current vs. \$19,000 Goal. • Track and Skeet shoot. Possible Wednesday in May. • "Matching Funds" deadline is end of March. | |

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

March 10, 2017 @ 7:30 AM

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

- | | |
|--|-------------------------|
| 14. Refrigeration Report | Mike Nohle/Sam Scorsone |
| <ul style="list-style-type: none"> • 4/10 @ Allied Foods in Brockport w/ Pete Brennan • Dinner to follow @ Brockport State (Cooper Hall) | |
| 15. Grassroots Government Advocacy Report | Tom Burke/George Herman |
| <ul style="list-style-type: none"> • National Engineers' Week (2/19-2/25) with proclamation letter. • Letter to be highlighted on website | |
| 16. Newsletter Report | Scott Edwards |
| <ul style="list-style-type: none"> • Committee submissions = (6) in March | |
| 17. Buyers Guide | OPEN |
| <ul style="list-style-type: none"> • Evaluating options: <ul style="list-style-type: none"> i. Business card ads in newsletter & website ii. Searchable list on website w/ PDF print option | |
| 18. Historian Report | Jake Hall |
| <ul style="list-style-type: none"> • Digitizing archive status. • Draft chapter timeline for publishing on website. • (2) New lifetime members - William Tallie and Alfred Rodgers. <ul style="list-style-type: none"> i. Upcoming newsletters to include a "questions and answers" section for each. | |
| 19. Publicity Report | Mark Kukla |
| <ul style="list-style-type: none"> • Facebook & Linked In. | |
| 20. Website Report | Steve Dear/Kevin Wind |
| <ul style="list-style-type: none"> • Monthly updates (schedule, newsletter, BOG MM's) | |
| 21. Nominating Report | Chris Walter |
| <ul style="list-style-type: none"> • To be presented at March meeting. • Nomination ballot to be emailed out to members. | |
| 22. Women in ASHRAE | Jaimee Wilson |
| <ul style="list-style-type: none"> • 1st Wednesday Lunch - started on March 1st @ Distillery • April 1st @ Erdman Anthony - Book Club - Lean in | |

Board of Governors Meeting Minutes



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

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

23. Valentines Dinner Dance Report Jody McGarry
- 110 attendees.
 - P&L
24. Golf/Picnic Report Jim Browe
25. Presidential Award of Excellence (PAOE)
- 5 of 6 are above par. Approaching our 10,000 point goal.
26. New Business:
- ASHRAE Ski Day - great attempt, poor weather (had 16 sign up)
 - ASHRAE Certified list
27. Old Business:
- Engineering Symposium 4/18
 - RES Gala Sponsorship 4/8
 - President Elect Training - Bill Clark 4/8
28. Set next BOG Meeting date / time / place.
- Friday, April 7th @ 7:30 AM, Day Automation Office
29. Adjourn - 8:35 am

Application for Student Membership



Join online at www.ashrae.org/students

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!

Why ASHRAE?

- Discounts on publications, conferences, and continuing education opportunities
- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications
- Digital access to the monthly ASHRAE Journal and the quarterly High Performing Building Magazine
- Participate in events with your local ASHRAE Chapter
- Find internships and jobs at jobs.ashrae.org
- Senior Undergraduate Project Grant Program
- Discounted ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Gain essential skills not taught in class
- Make great new friends!

Developing Economies Program for Students

Students who reside in countries categorized as "Low Income" and "Lower Middle Income" developing economies by the World Bank List of Economies statistics are eligible to participate in this program. Students in this program receive all the benefits of regular student membership, including online access to the ASHRAE Journal (digital access only - participants will not receive a monthly printed copy of the ASHRAE Journal).

Visit www.worldbank.org for a listing of qualified countries: Low Income and Low Middle Income only. If you currently reside in one of the countries listed in those categories, simply check the box marked 'Developing Economies Program' in the 'Purchases' section of this application.



1. **Contact Information.** Mr. Miss Ms. Mrs. *Birthday (required) _____ / _____ / _____
(Month) (Day) (Year)

Name _____
(First) (Last)

Primary Address (where all correspondence will be mailed) Alternate Address

Address _____ Address _____

City _____ State/Province _____ City _____ State/Province _____

Zip/Postal _____ Country _____ Zip/Postal _____ Country _____

E-mail _____ E-mail _____

Phone: _____ Phone: _____

I would like to receive occasional student updates via email. | I would like to participate in the _____ ASHRAE Chapter.

2. **Student Branch Information.** School Name: _____

Address: _____

City: _____ State/Province: _____ Postal Code _____

3. **Education.** Classification: Freshman Sophomore Junior Senior Masters/PhD.

Full time Part time Degree: _____ Expected Graduation Date: _____
(MM/DD/YYYY)

4. Sponsor Information.

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 Member of ASHRAE, he/she can serve as your sponsor. If you need assistance locating a sponsor, please email 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: _____ Email _____

5. Purchases.

Student Membership- Regular: \$20 Student Membership- Developing Economies Program (see reverse for qualifications) \$10

Printed Edition of the current ASHRAE Handbook: I-P SI Student Member Price: \$49.00

CD Version of the ASHRAE Handbook (Includes both I-P and SI Units) Student Member Price: \$39.00

ASHRAE Handbook Online - One Year Subscription to all four volumes of the Handbook series: \$33.00

*Additional publications are available at student member discounts at ashrae.org/studentbookstore

6. **Payment.** Visa Mastercard Amex Diner's Club Check/money order**

Card # _____ Expiration Date _____ / _____
(Month) (Year)

Total Amount: _____ Signature _____

CHECKS WILL BE ACCEPTED IN US AND CANADIAN FUNDS. CREDIT CARD PAYMENTS ACCEPTED IN US FUNDS ONLY



NEW Course! School of Hard Knocks: Controlling Moisture & Humidity in Buildings

Moisture Problems Are the Leading Cause of Insurance Claims for Buildings. ASHRAE's Web-Based Course Explains How to Avoid Them.

This course shows how dry buildings are healthier and more resilient, comfortable and energy-efficient than damp or moldy buildings. Dry buildings have better indoor air quality, and also cost less to operate, last longer, and hold less financial and professional risk for their designers and builders, given that moisture problems are the leading cause of claims against errors and omissions insurance of architects, engineers and contractors.

Based on decades of experience of designers, contractors and building owners, this course provides a wealth of lessons learned the hard way about moisture and humidity-related imperatives of design, both architectural and mechanical, and about moisture issues in construction and operation. The result of collaboration between the members of ASHRAE's Technical Committee 1.12 (Moisture Management in Buildings) and the Indoor Environments Division of the U.S. Environmental Protection Agency, this course uses case histories to illustrate and summarize what works, what doesn't and why.

Objectives:

<https://elearning.ashrae.org/>

After completing this course, you will be able to:

1. Understand why, how, where and when mold grows in buildings.
2. Understand 12 historically common reasons for moisture and humidity problems in buildings.
3. Understand 12 specific actions that can be taken by designers, contractors and building operators to avoid common moisture and humidity problems.

Price: \$50 (\$42 ASHRAE Member)

Professional Development Hours (PDHs): Earn 3PDHs

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

2. Phone

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

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



Free ASHRAE Webcast 2017

Take Control: Using Analytics to Drive Building Performance

April 20, 2017 | 1:00 – 4:00 PM EDT

Participate in the upcoming **FREE** interactive ASHRAE Webcast to hear industry experts who will define the importance of, and why we should strive for, better building operations through improved controls and analytics. Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps required to deploy analytics in building projects, including commissioning. This program will quantify how applying best practice controls improves building performance, and will recognize the value of analytics in building operations to achieve a reduced cost and increased performance.

This webcast program is brought to you by the ASHRAE Chapter Technology Transfer Committee.

How to Participate

- Host a webcast site for your colleagues.
- Register to view with others at a site near you.
- Register to view the live webcast on your PC.
- Register to view the On Demand webcast.

Registration

Online registration begins **March 20, 2017** at www.ashrae.org/webcast.
There is no fee for registration.

Earn Continuing Education Credits

Three (3) Professional Development Hours (PDHs) may be awarded to participants who complete the Participant Reaction Form online by **May 5, 2017**.

The webcast program has been approved for three (3) HSW Learning Units (LU/HSW) by the American Institute of Architects (AIA), as well as three (3) Continuing Education Hours by GBCI. The state of New York also recognizes AIA course approval.

The Presenters



Tim Wentz, P.E., Fellow ASHRAE, HBDP
2016 - 2017 ASHRAE President
Lincoln, NE



Srinivas Katipamula, Ph.D., Fellow ASHRAE, FASME
Staff Scientist
Pacific Northwest National Laboratory
Richland, WA



Mark Gallagher
Manager – Building Services, Global Markets
Armstrong Fluid Technology
Toronto, ON, Canada



Jim Meacham, P.E.
Founding Principal
Altura
Corona Del Mar, CA

Additional Information and Questions

For more information about the presenters, continuing education credits, and ASHRAE net zero resources, please visit www.ashrae.org/webcast . If you have questions, call (678)539-1200 or email ashrae-webcast@ashrae.org.

2017 ASHRAE ANNUAL CONFERENCE

Long Beach, California | June 24–28, 2017



2017 Annual Conference in Long Beach Promotional Items for Chapters

We are looking forward to the 2017 Annual Conference in Long Beach. To help promote this event to your chapter please check out the available marketing materials, including website and social media images, as well as a printable flyer for chapter meetings: www.ashrae.org/longbeachmarketing.

SAVE THE DATE

April 20, 2017 | 1:00pm - 4:00 pm EDT



ASHRAE Webcast Media Kit

Registration for the FREE Annual Webcast opens March 20th at www.ashrae.org/webcast. The Webcast can serve as the perfect April event for your Chapter. And don't forget to spread the word to your peers who may not be members yet, viewing the Webcast is free for both Members and non-members!

ASHRAE HVAC Design Training HARTFORD



Level I & II Training Offered – Register for Both and Save

HVAC Design: Level I – Essentials

When: May 22 - 24, 2017 | Hartford, CT

Cost: \$1,264 (ASHRAE Member: \$1,009)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

ASHRAE's HVAC Design: Level I – Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

BONUS! Get a FREE copy of *STANDARD 189.1-2014* and *User's Manual!* A \$200 Value!

HVAC Design: Level II – Applications

When: May 25 - 26, 2017 | Hartford, CT

Cost: \$854 (ASHRAE Member: \$699)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

Register for BOTH training sessions to save money and fast track your experience level!

ASHRAE's HVAC Design: Level II – Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability/Green/LEED/HPB/NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

BONUS! Get a FREE copy of *ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 4th. ed.* A \$100 Value!

CRC 2017 Announcement



Region I

CRC 2017

Long Island
Chapter



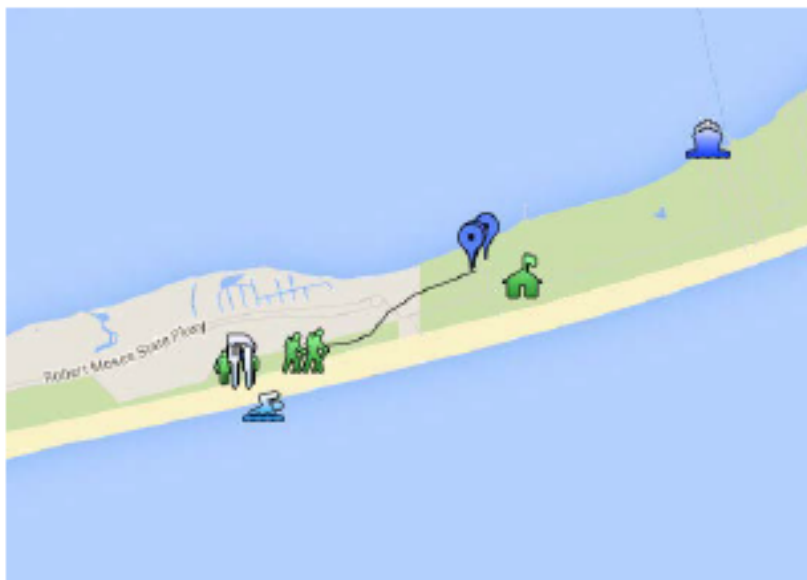
August 17 - 18
Hyatt Regency
Islandia, NY

CRC 2017 Announcement

THE FIRE ISLAND TOUR 2017 CRC LONG ISLAND AUGUST 18TH 2017



The Fire Island Lighthouse is located at the western end of the Fire Island National Seashore, just east of Robert Moses State Park. Take Robert Moses Causeway south to the end. At the Robert Moses water tower proceed east to **Parking field #5**. There is a parking fee at certain times of the year. Park on the east side of the parking field and **follow the boardwalk** right to the lighthouse.



Special events are listed below. May be we can request Seaside Story time for Friday.

AUGUST - 2017

- August 16th - Wednesday - Seaside Story Time
- August 19-20 - Saturday & Sunday - Amateur Radio Lighthouse Weekend
- August 23rd - Wednesday - Seaside Story Time

UNIQUE TOWER TOURS

- Special tours can be arranged for groups, including sunset tours. A minimum fee of \$200 is needed to arrange a tour of up to ten individuals, plus \$20 for each additional person.
- Maximum group size for tower tours cannot exceed 20 people.
- A tour is usually about 1 hour. People climb up to the tower and the history of the tower is being told during the visit.



Fire Island Light was an important landmark for transatlantic ships coming into New York Harbor at the turn of the last century. For many European immigrants, the Fire Island Light was their first sight of land upon arrival in America.

The first lighthouse built on Fire Island was completed in 1826. It was a 74-foot high, cream colored, octagonal pyramid made of Connecticut River blue split stone. The tower was built at the end of the island, adjacent to the inlet. This tower was not effective due to its lack of height. It was almost entirely removed and the stone reused to build the terrace for the present lighthouse. Today a circular ring of bricks and stone are all that remain of the original lighthouse. Due to the westward migration of sand along the beach, known as littoral drift, the inlet is now approximately six miles westward of this site.

EDUCATION



Trained volunteers conduct the tower tour and USLSS portions of the program. Every effort will be made to provide a guide for the nature walk segment. Based on volunteer availability, occasionally teachers may be asked to conduct this segment with the use of the self-guiding trail tour.



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	r01drc@ashrae.net
Region Assistant Regional Chair	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	r01arc@ashrae.net
Region Members Council Rep	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	r01RMCR@ashrae.net
Region Treasurer	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	r01tr@ashrae.net
Region Grassroots Government Advocacy	Richard	Vehlow	NYS OGS Design	10 Catherine Pl	Latham	NY	12110-5204	(518)474-2471	r01GGAC@ashrae.net
Region Chapter Technology Transfer	Christopher	Phelan	Thermco	228 Scoles Ave	Clifton	NJ	07012-1126	(973)777-6700	r01rvcttc@ashrae.net
Region Membership Promotion	Lee	Feigenbaum						(347)533-0161	r01rvcm@ashrae.net
Region Research Promotion	Andrew	Manos	Stony Brook University	17 Horton St	West Islip	NY	11795-1039	(516)413-0214	r01rvcrp@ashrae.net
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	r01rvcsa@ashrae.net
Region Regional Historian	Stanley	Westhoff	Unilux Advanced Manufacturing LLC	18 Santee Dr	Gansevoort	NY	12831-1322	(518)587-1949	r01hist@ashrae.net
Region YEA	Chonghui	Liu				NY		(315)956-6533	r01yea@ashrae.net
Region Nominating Committee Member	Russell	Stuber	U & S Services Inc	95 Stark St	Tonawanda	NY	14150-1210	(716)693-4490	r01nom@ashrae.net
Region Nominating Committee Alternate	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	r01noma@ashrae.net
Region CRC General Chair	Jim	Browe						(585)697-0836	R01CRCChair@ashrae.net



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

Email Address: c001@ashrae.net; c003@ashrae.net; c004@ashrae.net; C006@ashrae.net; c007@ashrae.net; c008@ashrae.net; c010@ashrae.net; c011@ashrae.net; c012@ashrae.net; c111@ashrae.net; c118@ashrae.net; c129@ashrae.net; c146@ashrae.net; c152@ashrae.net



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	c001ne@ashrae.net
004	CONNECTICUT	Nichole	Petersen	Flow Tech Inc	10 Bidwell Rd	South Windsor, CT 06074-2412	(860)291-8886	c004ne@ashrae.net
006	LONG ISLAND	Liset	Cordero	MG Engineering DPC	170 Horton Ave	Valley Stream, NY 11581-1439	(212)643-9055	c006ne@ashrae.net
007	NEW JERSEY	Adele	Glaser	Trane	19 Chapin Rd Bldg B Suite 200	Pine Brook, NJ 07058-9385	(973)244-7731	c006ne@ashrae.net
011	ROCHESTER	Scott	Edwards	Johnson Controls	31 Barkwood Ln	Spencerport, NY 14559-2249	(585)301-6591	c011ne@ashrae.net
012	NIAGARA FRONTIER	Varun	Kulkarni	Zehnder Rittling	100 Rittling Blvd	Buffalo, NY 14220-1885	(405)385-1928	c012ne@ashrae.net
129	TWIN TIERS	Andrew	Nice	Meier Supply Co.	275 Broome Corporate Pkwy	Conklin, NY 13748-1511	(607)797-7700	C129ne@ashrae.net

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



REGION I CHAPTER WEBMASTER CONTACT INFORMATION

Chapter #	Chapter Name	First	Last	Company	Address Line1	City State Zip	Phone	Email Address
001	BOSTON	Kevin	Doty	Victaulic	12 Mohawk St Unit 9	Boston, MA 02127-3594	(484)523-8908	c001web@ashrae.net
007	NEW JERSEY	Dorrie	Mercurio		75 South St	Freehold, NJ 07728-2317	(732)761-0108	c006web@ashrae.net
008	NEW YORK	Gaspar	Cabrera	YR&G	163 W 23rd St	New York, NY 10011-2465	(917)783-0166 (917)7830166	c008web@ashrae.net
011	ROCHESTER	Stephen	Dear	Crosby Brownlie Inc	100 Nassau St	Rochester, NY 14605-1955	(585)730-2599	c011web@ashrae.net
012	NIAGARA FRONTIER	James	Price		1021 Klein Rd	Williamsville, NY 14221-1923	(716)645-5516	c012web@ashrae.net
118	MAINE	Stephan	Becker	SMRT	144 Fore St	Portland, ME 04101-4843	(207)772-3846	C118web@ashrae.net
129	TWIN TIERS	Michael	Colwell	Tri Cities Temperature Ctl Inc	122 Park Ave	Binghamton, NY 13903-3227	(607)724-8282	C129web@ashrae.net

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