

ASHRAE Rochester



VOLUME 11, ISSUE 10

MAY 2017

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MONDAY, MAY 8, 2017

ASHRAE Picnic / Golf Tournament

To be held at

Ravenwood Golf Course

		
<p>Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564</p> <p>Golf Registration 9:30 – 10:45 am Juice, Scones and Coffee Served 11:00 am - Shotgun Start</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</p> <p>Dinner Catered By: Dinosaur Bar B Que at Ravenwood Golf Club</p> 	<p>Four Man Scramble and Optional Skins Game</p> <p><u>Golf includes:</u></p> <ul style="list-style-type: none"> ○ Golf ○ Cart ○ Driving Range ○ Prizes ○ Beer & food at the turn

(refer to page 5)



Chapter Officers

President

Jeff Close, PE
(585) 289-6816
jeff.close@pres-services.com

President Elect

Bill Clark, PE
(585) 303-0729
william.clark@DayAutomation.com

Treasurer

Paul Kenna, PE
(585) 261-0558
pkenna@nrg-concepts.com

Secretary

Tom Streber, PE
(585) 272-9450
tstreber@jswanson.com

Committee Chairs

CTTC

Jeff Wiedrick (585) 325-8354
jwiedrick@bergmannpc.com

Grassroots Government Advocacy

Tom Burke, PE (585) 429-3594
tom.burke@wegmans.com
George Herman (585) 219-5908
George@hermanhvac.com

Refrigeration Co-Chairs

Michael Nohle (585) 545-5522
mnohle@meiersupply.com
Sam Scorsone, PE (585) 429-3925 ext 3925
Samuel.Scorsone@wegmans.com

Historian

Jake Hall (585) 869-5125
jhall@proairplus.com

Membership

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

YEA

Matt Kremers (585) 398-8018
mkremers@mcsmms.com

Student Activities

Rob Hudson, PE (585) 341-3187
rhudson@ibceng.com

Board of Governors

Tim Duprey (3)
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tduprey@rochester.rr.com

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bfweinblatt@popligroup.com

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bmurray@ec4b.com

Newsletter Editor

Scott Edwards (585) 301-6591
ashraerocnews@gmail.com

Attendance

Timothy Duprey (585) 330-6430
tduprey@rochester.rr.com

Publicity

Mark Kukla (585) 232-3440
mark@airsystemsbalancing.com

Research Promotion

Matt Devlin (585) 232-5135
mdevlin@bergmannpc.com

Webmaster

Steve Dear (585) 325-1290
sdear@crosbybrownlie.com

Nominating / Past President

Christina Walter (585) 486-2148
cmwalter@trane.com

Buyer's Guide

Branden Farnsworth-Weinblatt, PE
(585) 364-1628
bfweinblatt@popligroup.com

ASHRAE 2016-2017 Meeting Schedule			
Date	Event	Theme	Location
Monday, 5/8/2017	Annual ASHRAE Golf Outing and Picnic <i>(Ravenwood Golf Course)</i>	---	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 May Message

May Newsletter 2017
President's Message

On April 10th our Chapter toured "**Allied Foods**" in Brockport. A big thanks to Pete Brennan for hosting along with Mike Nohle and Sam Scorsone for organizing the event.

On Saturday April 8th, the Rochester ASHRAE Chapter was an Affiliate sponsor at **The Rochester Engineering Society's 115th Annual Gala Event**. We were honored to participate in such a worth event.

The **Rochester Engineering Symposium** was held on April 18th at the Hyatt Downtown. This year Christina Walter did a terrific job putting together a slate of three HVAC presentations sponsored by ASHRAE. Thank you Chris!

Our final event of the year is our Annual Golf/Picnic scheduled for Monday, May 8th. If you are interested in participating or becoming a sponsor for this event, please contact Jim Browe (jbrowe@rfpeck.com).



Jeff Close, 2016-2017 President

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



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

Event	Fee Amount Each	# Attending	Total
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:		



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: 2600
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 1400
▶ 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: 1975
▶ RP	Par: 1050	Min Points: 800	Total Points: 910
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 1915

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

Student Activities

Opportunities for ASHRAE Student Members – Part 2

Student members are a vital part of the ASHRAE society. Without them, we lose potential to improve society by growing young minds from early stages in their education.

A primary method of gathering students to become full-fledged ASHRAE society members is to create and maintain a Student Branch. In the past, Rochester has had a branch at RIT and MCC. In recent years, both have become inactive.

The good news is MCC has nearly completed the process to become active again. This means that the Rochester ASHRAE chapter will have a collective group of students who can come together to contribute to the society in ways that we cannot imagine. The MCC branch will also provide these students opportunities to network with engineers, vendors and contractors alike. Once it gets rolling, we'll be reaching out to society members to present on topics very similar to our monthly lunch meetings and the YEA Tech Sessions.

The most important thing for us to do is make sure these students become more involved with our society on a chapter level. In doing so, I know we will all welcome them openly and help them learn and grow.

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

YES Frisbee Golf

Monday May 8th at 3PM the YEA group will be hosting our annual Frisbee Golf tournament at Ellison Park. Please contact Matt Kremers for more information.

Research Promotion

Springtime is fast approaching and the 2016-2017 Fundraising Campaign will be coming to a close soon. 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



Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

April 7, 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	Phone
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	Phone
Board of Gov. (1)	George Herman	X
Historian Chair	Jake Hall	
Newsletter Editor	Scott Edwards	
Resource Promotion Chair (RP)	Matt Devlin	Phone
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	

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

April 7, 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	
Grassroots Government Advocacy Chair	Tom Burke	
Refrigeration Co-Chair	Mike Nohle	
Women in ASHRAE	Jaimee Wilson	
Attendance Co-Chair	Brett Fryover	Phone

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
 - Main Checking = \$20,642.59
 - Paypal Checking = \$4,444.65
 - Charles Lynch Fund = \$41,978.62
5. President Elect/Program Bill Clark
 - APR = Refrigeration Tour
 - PDH Approved.
 - RES Symposium 4/18.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

April 7, 2017 @ 7:30 AM

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

6. Attendance

Tim Duprey/Bret Fryover

- Previous meeting summary
 - i. 59 attendance.
 - ii. 3 first time visitors.
- Current reservations
 - i. 23 currently signed up.
- Perfect attendance
 - i. Chris Hartmann (JW Danforth).
 - ii. To include a recognition award.

7. CTTC Report

Jeff Wiedrick

- Project submission by May 1, 2017.
- Article submitted in newsletter, categories.

8. Membership Report

Mike Benedict

- Current members (283 vs. 252 goal)
- 12 New members (6 students, 6 non-students).
- Membership upgrades (31 YTD)

9. Student Activities Report

Rob Hudson

- Student chapter status (MCC or RIT).
- Met with MCC students on 4/6.
 - i. Enough interest to restart student branch.
 - ii. Look for local contractors etc. to present to students.

10. Education Report

Bill Murray

- Scholarship - discuss with society.
 - i. Charles Lynch Scholarship set up for (3) recipients enrolled in MEP at RIT.
 - ii. For scholarships to RIT, funds must be turned over to RIT for RIT to distribute.
 - iii. Jack Betlem Memorial Award - For active members of RIT's student chapter.
 - iv. Awards to be given to students who achieve certain goals (attend meetings, essay, curriculum, etc.).

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

April 7, 2017 @ 7:30 AM

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(Call in #1-712-432-0360, Access: 137504#)

- | | |
|--|-------------------------|
| 11. YEA Report | Matt Kremers |
| <ul style="list-style-type: none"> • Future site visit - ETL Lab, date TBD. <ul style="list-style-type: none"> ○ Going to be extended to the CNY Chapter. • Frisbee golf schedule • List of new YEA members | |
| 12. Awards & Recognition Report | Al Rodgers |
| <ul style="list-style-type: none"> • Realto Cherne Award - Looking for nominees. | |
| 13. Resource Promotion Report | Matt Devlin |
| <ul style="list-style-type: none"> • \$13,300 Current vs. \$19,000 Goal (70%). • Planning Trap & Skeet Shoot @ Brookside, considering Wednesday 5/24. | |
| 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). • PDH Approved. | |
| 15. Grassroots Government Advocacy Report | Tom Burke/George Herman |
| <ul style="list-style-type: none"> • Invite interested speakers (i.e. government officials) to attend golf outing and learn more about ASHRAE, members and BOG. • George to send out invite (email) and follow up with phone call. | |
| 16. Newsletter Report | Scott Edwards |
| <ul style="list-style-type: none"> • Committee submissions | |
| 17. Buyers Guide | OPEN |
| <ul style="list-style-type: none"> • Review options <ul style="list-style-type: none"> i. Business card ads ii. Website searchable ads | |
| 18. Historian Report | Jake Hall |
| <ul style="list-style-type: none"> • Digitizing archive status - set deadline. • "Q&A" for our new life members, not likely to happen. • Create chapter timeline. | |
| 19. Publicity Report | Mark Kukla |

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

April 7, 2017 @ 7:30 AM

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(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
- Election results and ready for submission by 4/30
22. Women in ASHRAE Jaimee Wilson
- 1st Wednesday Lunch.
 - April 1st @ Erdman Anthony - Book Club - Lean in
23. Valentines Dinner Dance Report Jody McGarry
- Report = net -\$1,528.83.
24. Golf/Picnic Report Jim Browe
- Sponsorship request sent out
25. Presidential Award of Excellence (PAOE)
- Need to have DRC update PAOE points that have been earned.
 - Should accomplish 10,000 point goal.
26. New Business:
- Rochester March for Science = 4/22
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, May 5th @ 7:30 AM, Day Automation Office.
29. Adjourn - 8:47 a.m.

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)

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

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!

ASHRAE 2017 Annual Conference

June 24-28, 2017

Long Beach, CA



The 2017 Annual Conference will be held in sunny Long Beach, California! Get your board shorts ready and join us for a long weekend in Long Beach, June 24-28, 2017. Registration is open now at www.ashrae.org/longbeach.

The Long Beach Convention and Entertainment Center will be your one-stop shop for Registration, Bookstore, Speakers Lounge, and the Technical Program. Committee meetings will take place at the Hyatt Regency Long Beach, the Renaissance Long Beach, and the Long Beach Convention and Entertainment Center.

Technical Program

"Recently the building industry has seen a push in net zero energy (NZE) and California is on the forefront as Title 24 will require all new residential construction to be NZE by 2020 and all commercial buildings to be NZE by 2030," Ann Peratt, Conference Chair said. The conference includes tracks that demonstrate the benefits of net zero energy and ways to achieve that goal in the design and operation of buildings.

The fifth annual Research Summit brings together distinguished researchers to present the latest research results on building science and renewable energy and its impact as we move towards NZE buildings.

The conference Technical Program features new tracks that focus on resources to design, build, control, commission and operate these high efficiency facilities:

- Building Life Safety Systems **NEW**
- Commissioning: Optimizing New and Existing Buildings and their Operation Controls **NEW**
- Fundamentals and Applications
- HVAC&R Systems and Equipment
- Net Zero Energy Buildings: The International Race to 2030 **NEW**
- Refrigeration
- Residential Buildings: Standards Guidelines and Codes **NEW**

ASHRAE Learning Institute Courses

ASHRAE Learning Institute (ALI) provides high-quality training presented by industry recognized experts. Choose from full-day professional development seminars and half-day short courses to stay current on new HVAC&R technologies. ALI seminars and courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

For more information, visit www.ashrae.org/longbeachcourses.

REGISTRATION

Early Bird fees from March 1 through May 1

- \$690, member/\$740, non-member
- \$900, first-time member attendee/\$710, first-time non-member attendee

Advance fees from May 2 through June 12

- \$660, member/\$760, non-member
- \$930, first-time member attendee/\$740, first-time non-member attendee
- \$140, Life Member

Full registration fees from June 13 through June 28

- \$690, member/\$900, non-member
- \$930, first-time member attendee/\$870, first-time non-member attendee
- \$130, Life Member
- \$270 member one-day fee/\$320 non-member one-day fee

Registration fees for speakers, student branch officers and students

- \$130, speaker
- \$20, student branch advisor
- \$20, student member/\$50, full-time student non-member

www.ashrae.org/LongBeach



Welcome Party, Aquarium of the Pacific

Saturday, June 24th from 7:00 – 9:00 p.m.
Cost: \$55

Enjoy a cocktail and catch up with old friends with a background of colorful, underwater views as the Conference kicks off with the traditional Welcome Party. The event takes place at the Aquarium of the Pacific, a few walkable blocks from the Hyatt Regency and other partner hotels.

At the Aquarium of the Pacific take a journey of discovery through the world's largest ocean. Meet more than 11,000 animals in over 50 exhibits as you explore the frigid waters of the Northern Pacific and the colorful reefs of the Tropical Pacific. Guests will be greeted by a tropical friend. See and learn more about the energetic and curious sea otters in the Northern Pacific Gallery on the second floor with two, short shows!

President's Luncheon, Hyatt Regency

Monday, June 26 from 12p.m. – 2 p.m.
Cost: \$45

2017-18 ASHRAE President Bjarne W. Olesen, Ph.D., Fellow ASHRAE, Life Member, presents his presidential theme, "Extend", which is based upon the Society goal to "Extend Our Community" found in our Strategic Plan. Together, we can extend our global community, our technological horizons, and our value to Members. Certificates of appreciation to retiring Board members are presented, and the 2017-18 officers and Board of Directors installed.

Life Members Luncheon

Tuesday, June 27 at 12:00 – 1:30 p.m.
Cost: \$35

Enjoy lunch, share ideas about the future of technology and swap memories of the Society while dining with Life Members. This member grade is for members who have completed 30 years of continuous membership and are at least 65 years of age.

Tours

The Long Beach Host Committee has planned some incredible technical and general tours for the Conference. More information is available on the Conference webpage at www.ashrae.org/LongBeach.

ASHRAE Certification

Tuesday, June 27 at 2 p.m.

Already recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals. Elevate your reputation among peers, in the workplace and among clients with an ASHRAE certification.

To sit for one of these six ASHRAE certification exams on Tuesday, June 27 at 2:00 p.m., apply by June 6 at www.ashrae.org/longbeachexams.

- Building Commissioning Professional (BCxP)
- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- High-Performance Building Design Professional (HBDP)
- Healthcare Facility Design Professional (HFDP)
- Operations & Performance Management Professional (OPMP)

Register Now and Learn More at www.ashrae.org/LongBeach.



KEYNOTE SPEAKER:

Derreck Kayongo, CEO of the National Center for Civil and Human Rights, Founder of the Global Soap Project

Derreck Kayongo brings audiences to their feet with his compelling and courageous story of survival, discovery and humanitarianism. From a young Ugandan refugee to a successful entrepreneur, human rights activist, and renowned global health expert, Kayongo galvanizes audiences to seize the power of observation to identify issues, and effectively solve any challenge. With undeniable charm, palpable passion, and endearing wit, Kayongo brings his story and guiding principles to life in emotionally packed presentations that stay with you long after his closing remarks.

Kayongo is the founder of the Global Soap Project, which recycles partially used and discarded bars of soap from thousands of hotels and redistributes it to disadvantaged populations around the world. Since its founding in 2009, the Project has distributed soap to more than 90 countries where close to 2 million lives are claimed each year due to lack of proper hygiene.

Kayongo's experience as a human rights activist, combined with his lifelong commitment to his work and notable rhetorical skills earned him his current role as the CEO at the National Center for Civil and Human Rights. Called a "living embodiment of the Center's mission," Kayongo is elevating the visibility of the Center and expanding its vision beyond its geography.

Recognized with a range of honors and awards for his activism, including as one of CNN's Top 10 Heroes award in 2011, most recently Kayongo was selected by President Jimmy Carter to interview him as part of the National Archives' Amending America Initiative.



Learn More at www.ashrae.org/LongBeach

CRC 2017 Announcement



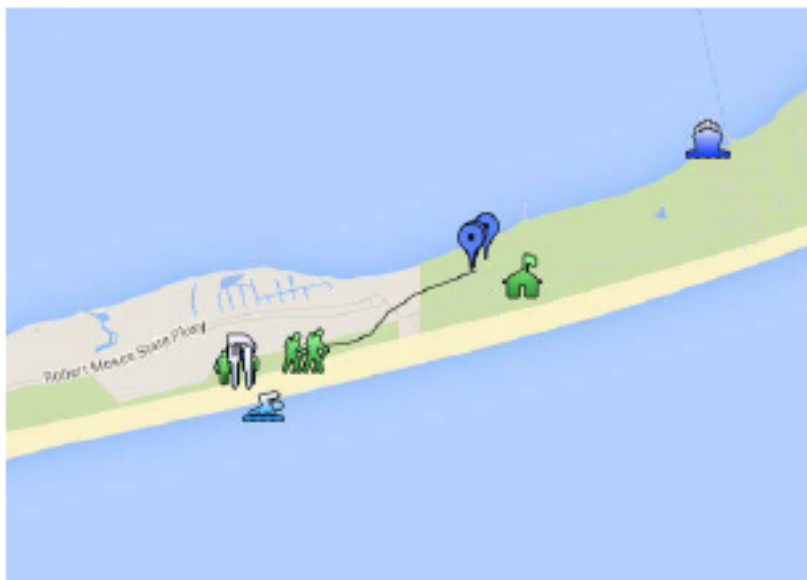
August 17 - 18
Hyatt Regency
Islandia, NY

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.

