



VOLUME 11, ISSUE 11

JUNE 2017

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ASHRAE REGION 1 CRC 2017

August 17-19th

Come join us for the 2017 Chapter's Regional Conference! The conference host hotel, the Hyatt Regency Long Island, is located in Hauppauge NY and is centrally positioned to our CRC offsite events.

Region 1 chapter members will be able to partake in training needed to advance their ASHRAE careers, attend the business meetings for our organization, and attend technical development sessions to advance their professional career.

In addition, there will also be numerous off-site activities for both ASHRAE members and their families to enjoy; these include a golf outing at the Wind Watch Country Club, welcome receptions, Hospitality Suites, dinner and social events, winery tours, and more!

(refer to page 19)

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.



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Buyer's Guide

Branden Farnsworth-Weinblatt, PE
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Presidential Award Of Excellence



Download



Achievements



Report

Chapter:

Fiscal Year:

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 2805
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 1550
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 1150
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 485
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 1675
▶ RP	Par: 1050	Min Points: 800	Total Points: 940
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 1965

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.

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 June Message

June Newsletter 2017
President's Message

On May 23rd we held our annual Golf/Picnic Outing at Ravenwood. With a few weeks delay the weather cooperated and much fun was had by all. Special thanks to Jim Browe and Kacie Hoffman for putting together another successful event along with all of our sponsors.

As I write my final president's message, I reflect back on the successful year we have had. Last summer when the entire board sat down to plan the year we came up with several goals and objectives that we felt were important to the chapter and its members. "Plan for Success" was the theme and this year the board hit it out of the park.

Throughout the year the chapter hosted multiple events that included a Clambake, Technical Presentations, Valentines Dinner Dance, Refrigeration Tour, Golf/Picnic Outing and more. New to the chapter this year was a Women in ASHARE group that met periodically to network with other professional women in the HVAC industry.



Jeff Close, 2016-2017 President

The success the Rochester Chapter saw this year is in direct correlation to the fantastic job our Chapter Officers, Board of Governors and Committee Chairs did. I personally want to extend my sincere gratitude for all the hard work you put in this year. As a volunteer organization each member should be proud to be a part of a Chapter that believes in giving back and providing learning experiences for all in the Rochester community.

Thank you!!! Enjoy your summer, spend time with your family and we'll see you back in September for our Clambake.

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

Highlights from May ASHRAE Picnic / Golf Tournament



THANK YOU!

2015-2016 ASHRAE Supporters

Golden Circle (\$10,000 - \$19,999)

Gray Metal Products

Major Donor – Silver (\$1,000 - \$9,999)

R.P. Fedder Corporation - Rochester

ASHRAE Rochester Chapter

Major Donor – Bronze (\$500 - \$999)

Mrs Lynn G Bellenger Memorial, PE

Major Donor – Antique (\$250 - \$499)

R.L. Kistler, Inc.

Genesee Heating

Massive Testing & Balancing, LLC

Day Automation Systems Inc

SMACNA Rochester

Mr. Richard Morelle

Mr. Richard P. Barrett



Shaping Tomorrow's
Built Environment Today

THANK YOU!

2015-2016 ASHRAE Supporters

Honor Roll (\$100-\$250)

R.F. Peck Co. - Rochester

Mr. Branden A Farnsworth-
Weinblatt

Mr. Mark Snyder

Mrs. Christina M Walter

Mr. Charles G White

Mr. Jeffrey C Ellis

Mr. Jeffrey C Bidell, PE,
CBCP

Mr. Peter C Oppelt

Mr. Matthew R Devlin

Mr. James C Browe

Mr. Jeffrey S Close, PE

Mr. William J Clark, PE

Mr. Ronald C Mead

Mr. Paul P Kenna

ASHRAE Supporters

Mrs Elizabeth L Ormond

Mr Patrick G Whelan

Mr Carl Louis Gambacurta

Mr Stephen E Maybeck

Mr Benjamin Curwin

Mr David D Principe

Mr Kevin J Gottermeier

Thank you to all of the donors for their generous support of ASHRAE and the Rochester Chapter during the 2015-2016 campaign!



Shaping Tomorrow's
Built Environment Today



PLATINUM & GOLD SPONSORS

Thank you for your support

PLATINUM

Gray Metal Products, Inc.

GOLD



Rochester Chapter

Committee Chairs Updates

Research Promotion

Research Promotion Report

The end of the ASHRAE is fast approaching and the 2016-2017 Fundraising Campaign will be coming to a close in less than 30 Days. 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 nearly \$15,000 in donations this year, but are still shy of 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 recognize for one final time all of our supporters of last year's campaign, who are listed on the following pages.

Unfortunately our 2nd Annual Trap/Skeet shoot to support ASHRAE Research was cancelled due to scheduling issues this year. We are hopeful that we will be able to make this wonderful event happen in 2018.

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





Rochester Chapter - ASHRAE

Board of Governors Meeting

May 5, 2017 @ 7:30 AM

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

Meeting Minutes

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	
Newsletter Editor	Scott Edwards	
Resource Promotion Chair (RP)	Matt Devlin	X
Awards & Recognition Chair	Al Rodgers	
Chapter Technology Transfer Chair (CTTC)	Jeff Wiedrick	X
Education	Bill Murray	
Publicity	Mark Kukla	
YEA Chair (Young Engineers in ASHRAE)	Matt Kremers	X
Student Activities Chair (SA)	Rob Hudson	
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	

1. Call to Order Jeff Close
2. Roll Call Tom Streber
3. Review and Approval of Previous Meeting Minutes All
 - April minutes approved.
4. Treasurer Paul Kenna
 - On track for budget.
 - Main Checking = \$20,826.59
 - Paypal Checking = \$16,496.10
 - Charles Lynch Fund = \$41,978.62
5. President Elect/Program Bill Clark
 - Program summary - Avg meeting attendance (72).
6. Attendance Tim Duprey/Bret Fryover
 - Previous meeting (Refrig. Tour) - 28 total attendance
 - Current reservations -
 - Perfect attendance
 - i. Chris Hartmann (JW Danforth) - Jeff close to take care of gift.
 - ii. Bill Clark (Day Automation)
 - iii. Jeff Close (PresEngineering)
7. CTTC Report Jeff Wiedrick
 - Projects submitted - None
8. Membership Report Mike Benedict
 - Current members (248 vs. 252 goal)
 - Membership upgrades (31 YTD), New YEA members (17 YTD)
 - Region Recruitment Contest (4/15-6/15)
9. Student Activities Report Rob Hudson
 - Student chapter status (MCC or RIT)
 - i. MCC to pick chair positions. Positions are needed for submission of re-charter request.
10. Education Report Bill Murray
 - Scholarship - ASHRAE Society or RES (Lynn Erwin) to help distribute.
 - RES would receive all of the funds to manage until they are fully dispersed.
11. YEA Report Matt Kremers
 - ETL Lab site visit cancelled.
 - Frisbee golf schedule, Monday 5/8 at Ellison Park.
12. Awards & Recognition Report Al Rodgers
 - Realto Cherne Award - to be announced at golf tournament

- | | |
|---|-------------------------|
| 13. Resource Promotion Report | Matt Devlin |
| <ul style="list-style-type: none"> • \$12,020 Current vs. \$19,000 Goal. • Skeet shoot is postponed until 2018. | |
| 14. Refrigeration Report | Mike Nohle/Sam Scorsone |
| <ul style="list-style-type: none"> • Allied Foods in Brockport w/ Pete Brennan | |
| 15. Grassroots Government Advocacy Report | Tom Burke/George Herman |
| <ul style="list-style-type: none"> • Golf invites - no response. • George to be chair in 2017-2018. | |
| 16. Newsletter Report | Scott Edwards |
| <ul style="list-style-type: none"> • Committee submissions | |
| 17. Buyers Guide | OPEN |
| <ul style="list-style-type: none"> • Need chair suggestions. • Review options <ul style="list-style-type: none"> i. Business cards vs. website ads | |
| 18. Historian Report | Jake Hall |
| <ul style="list-style-type: none"> • Digitizing archive status - set deadline • "Q&A" for our new life members • Create chapter timeline | |
| 19. Publicity Report | Mark Kukla |
| 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"> • Election results submitted and presented at golf tourn. | |
| 22. Women in ASHRAE | Jaimee Wilson |
| <ul style="list-style-type: none"> • 1st Wednesday Lunch. | |
| 23. Valentines Dinner Dance Report | Jody McGarry |
| <ul style="list-style-type: none"> • Complete. | |
| 24. Golf/Picnic Report | Jim Browe |
| <ul style="list-style-type: none"> • Monday, May 8th. | |
| 25. Presidential Award of Excellence (PAOE) | |
| <ul style="list-style-type: none"> • CONGRATS! We have exceeded our goal of 10,000 points. | |
| 26. New Business: | |
| <ul style="list-style-type: none"> • Removal of Jeff Ellis from PayPal • 2017/18 CIQ • RP Centralized Training in Chicago, IL = Sept 8 & 9 • MP Centralized Training in Long Beach, CA = June 25th • SA Centralized Training in Long Beach, CA = June 25th • 2017 Annual Conference in Long Beach, CA = June 24-28 • 2017 Region I CRC in Long Island, NY = August 17-19 | |

27. Old Business:

- President Elect Training - Bill Clark 4/8

28. Set next BOG Meeting date / time / place.

- TBD

29. Adjourn 8:37am

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

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 12 p.m. – 2 p.m.

Cost: \$45

2017-18 ASHRAE President Ejame 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.

Learn More at www.ashrae.org/LongBeach



KEYNOTE SPEAKER:

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

Dereck 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 2008, 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.



ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

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

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

Humidity Control I: Design Tips and Traps

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

Humidity Control II: Real-World Problems and Solutions

Tuesday, June 20, 2017 – 9:00 a.m. to 12:00 p.m.

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

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

NEW! Variable Refrigerant Flow System: Design & Application

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

Advanced High-Performance Building Design

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

NEW! Fundamental Requirements of Standard 62.1-2016

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

Designing High-Performance Healthcare HVAC Systems

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

Laboratory Design: The Basics and Beyond

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

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

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

Introduction to Building Enclosure Commissioning

Part I: Monday, October 23, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, October 24, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016

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

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

NEW! Variable Refrigerant Flow System: Design & Application

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

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

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

ASHRAE HVAC Design & Operation Training

3 Courses, 7 Days of Intense Instruction

Atlanta • Chicago • Columbus • Denver • Seattle

Improving Existing Building Operation - Registration is \$599 (\$499 ASHRAE Member)

Identify ways to improve existing HVAC system efficiencies and reduce utility expenses while maximizing performance of the building systems. This training details proper system operation and maintenance and introduces methods for evaluating potential system improvements.

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

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

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

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

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

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

CRC 2017 Announcement



Region I

CRC 2017

Long Island
Chapter



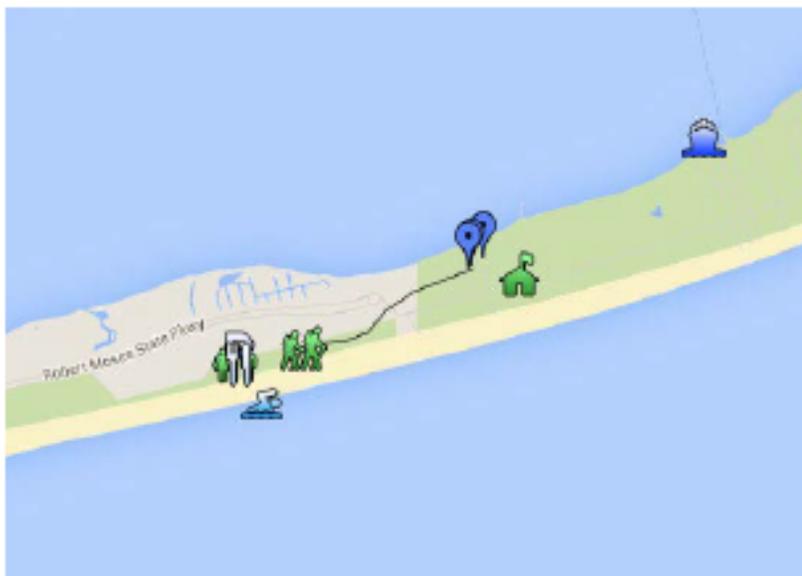
August 17 - 18
Hyatt Regency
Islandia, NY

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.



ASHRAE 2017 Annual Conference, Long Beach, CA — Region I Dinner

When: 6 – 9 PM, Monday, June 26, 2017.

Where: Patio Coves at Parkers' Lighthouse, 435 Shoreline Village Drive, Long Beach, CA.
(12-minute walking distance from Long Beach Convention Center)

Menu: 3 Course Menu — Salad, Entrée (fish, Steak, Chicken, and vegetable), Dessert.

Cost: \$85/person — including 3-course menu, private satellite bars, and all other fees (administration and rental fee, tax, tips, and PayPal fee); excluding drinks — they are on your own.

About: visit <http://www.parkerslighthouse.com> for more information about the restaurant.

Please contact CL (Chonghui.Liu@obg.com) with any questions.

