



American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

Our ASHRAE "season" got off to a great start with a well attended September meeting featuring an information-packed presentation by Bill Artis on "Code Compliance when applying VRF Systems". As current Chapter President, it was heartening to note that there were nine (9) Chapter Past-Presidents in attendance at the meeting...an indication of the continued commitment that our membership and chapter leadership have to support the well-being of the Long Island Chapter. Thirteen members were awarded Chapter Service Awards. Rich Rosner took a few moments to express his thanks to the ASHRAE 'family' for all the support given since the onset of medical issues which have limited his activities since last October. It reminded us that even though some of us may, in one way or another, be competitors in the workplace, when the chips are down, we all pull together when needed. In this way, our Chapter embodies the ASHRAE mission of working for the good of society.

I hope that when you receive the Sounder you take a few moments to read though it and see what your committee persons are doing for the Chapter and, perhaps, where you might fit into the overall scheme of things. As noted last month, with the 2017 CRC planning on-going and the event less than one year away, we are looking to reach out to more of our membership to take an active part in the process to make the 2017 Region 1 CRC a world-class event. Without duplicating what is contained elsewhere in this newsletter, I would just point out some highlights...



CHAPTER MONTHLY MEETING

DATE:	Tuesday, October 11, 2016
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
FEES:	
Members -	\$45.00
Guest -	\$50.00
Student -	\$15.00

Reservations requested, but not required.

Call (631) 632-2791

YEA - With a Chapter Board of Governors which is more than 50% YEA and the importance of bringing new "blood" into the organization, YEA activities will take on increasingly higher significance. Now is the time to reach out to Elizabeth to let her know what activities and events will be most beneficial/enjoyable for the YEA members.

CTTC - CTTC Chair, Murat Bayramoglu and guest contributor Steve Sonmez provide insight into the commissioning process...something which can be most beneficial in the long-term success of a building's mechanical systems...but only if diligently followed from design through construction/startup.

GGAC - Matthew Vitrano, our GGAC Chair, notes the passage of New York State requirements for Cooling Tower Registry and health-care facility drinking water testing. Remember that these requirements are, as are all codes and standards, minimum requirements, to be used as a starting point. When making contact with municipal and other code making officials, suggest they refer to ANSI/ASHRAE Std 188-2015

President's Message (Cont'd. from Page 1)

which encompasses the entire building water systems.

Membership – Our Membership Chair is wearing several hats this year...to make things a wee bit easier for Bill, there are a few things that each of our members can do, including: Keep your membership up-to-date (if you log onto www.ASHRAE.org , you will be reminded of your current expiration date), Upgrade your membership grade when eligible (especially important if you desire to get more involved in Chapter and Society operations) and; Make sure your Chapter Dues are currently paid up. When you renew through the Society, there is an option for paying Chapter dues...if you elect this method, please make sure you note Long Island Chapter as your chapter. If you choose to pay the annual dues directly to the chapter, please contact James Hanna, Chapter Secretary or mail to ASHRAE-LI, P.O. Box 79, Com-mack, NY 11725.

Programs – There are a few open slots in our program schedule, but they will fill up fast. If you have a presentation that you feel would be of interest, please contact Andrew DuBel, Program Chair/President-Elect. The key requirements (other than being related to HVAC/R topics) is that the presentation be approximately one hour in length, be non-commercial in nature and, either be approved or be eligible for approval for continuing education credits (PIE, AIA, etc). Note that the **November** presentation (at the Joint ASHRAE/SMACNA meeting night) will be on "Fitting Loss in Duct Construction". This is a change from what was published in our September Sounder.

CRC 2017 – AS noted above, planning activities have been ongoing and the CRC Chair, Rich Halley, will be reaching out for additional support, as we get closer to the event date. Andy Manos is developing the "goodie bag" contents. If you know of any local businesses who wish to donate "swag" (beverages, food, craft items and/or branded tchotchke (great advertising opportunity), please let Andy know.

RP – Long Island Chapter has consistently excelled at fund raising for Research Promotion and our RP Chair, Frank Paradiso plans on making this another banner year with the continued generosity of our supporters. Keep in mind that this year we will also be involved with fund raising for the CRC (keeping the participant costs for the CRC reasonable is highly dependent upon sponsorships and donations). I would ask that you not consider it an either/or decision but, rather, keep in mind that the CRC comes along once every 15 years or so, if possible, we will be asking people to dig a little deeper this year. Thank you in advance.

Sponsorships – While on the topic of fundraising, we have instituted a Chapter Sponsorship program (details elsewhere in the Sounder) and would like to thank Daikin for becoming the first "Platinum" Level Sponsor. THANK YOU!

I guess that brings us up-to-date (still working on doing the same to the Website)...looking forward to seeing a great turn-out for the **October meeting**, where **Rudolph Zaengerle will present on 'High-Performance Run-Around Energy Recovery Systems'**.

*Don Kane, P.E.
President - Long Island Chapter*

Long Island Chapter Officers & Committees

ASHRAE 2016/2017 OFFICERS


POSITION	NAME	PHONE	FAX	EMAIL
President	Donald W. Kane, PE	631.737.9170	631.737.9171	president@ashraeli.org
President-Elect	Andrew B. DuBel, PE	212.967.7651	212.967.7654	president_elect@ashraeli.org
Vice President	Richard Halley	718.269.3809	718.269.3725	vice_president@ashraeli.org
Financial Secretary	Frank Paradiso	631.632.2791	631.632.1473	finsec@ashraeli.org
Treasurer	James Hanna	718.269.3768	718.269.3794	treasurer@ashraeli.org
Secretary	Bill Artis	201.395.3750		secretary@ashraeli.org
Board of Governors	Matthew Vitrano	212.643.9055	212.643.0503	bog1@ashraeli.org
Board of Governors	Murat Bayramoglu	631.312.8818		bog2@ashraeli.org
Board of Governors	Michael Nigro	212.643.9055	212.643.0503	bog3@ashraeli.org
Board of Governors	Thomas Fields, PE, LEED AP	212.643.9055	212.643.0503	bog4@ashraeli.org

ASHRAE 2016/2017 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Andrew B. DuBel, PE	212.967.7651	212.967.7654	programs@ashraeli.org
Membership (MP)	Bill Artis	201.395.3750		membership@ashraeli.org
Refrigeration	Bill Artis	201.395.3750		
Chapter Technology Transfer (CTTC)	Murat Bayramoglu	631.312.8818		cttc@ashraeli.org
Grassroots Government Activities (GGAC)	Matthew Vitrano	212.643.9055	212.643.0503	ggac@ashraeli.org
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	editor@ashraeli.org
Research Promotion (RP)	Frank Paradiso	631.632.2791	631.632.1473	rp@ashraeli.org
Historian	Michael Nigro	212.643.9055	212.643.0503	historian@ashraeli.org
Student Activities (SA)	James Hanna	718.269.3768	718.269.3794	sa@ashraeli.org
Young Engineers in ASHRAE (YEA)	Elizabeth Jedrlinic	718.269.3554	718.269.4698	yea@ashraeli.org
Webmaster				web@ashraeli.org
Nominating	Michael Gerazounis, PE, LEED AP	212.643.9055	212.643.0503	nominating@ashraeli.org
Reception & Attendance	Michael Nigro	212.643.9055	212.643.0503	reception@ashraeli.org
PR & Engineering Joint Council of LI (EJCLI) Liaison	Andrew Manos, LEED AP	631.632.2791	631.632.1473	pr@ashraeli.org
Chapter Regional Conference – 2017 (CRC)	Richard Halley	718.269.3809	718.269.3725	crc@ashraeli.org
Golf Outing	Peter Gerazounis, PE LEED AP	212.643.9055	212.643.0503	golf@ashraeli.org
Awards	Brian Simkins	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
ASHRAE LI, P.O. Box 79, Commack, NY 11725				

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Chapter Monthly Meeting - Program for 2016/2017

September 13, 2016 * At Westbury Manor  Dinner Presentation – Code Compliance Considerations for VRF Applications Presenter: Bill Artis **1 PDH** Refrigeration Night	March 14, 2017 * At Westbury Manor Dinner Presentation— TBD Presenter: TBD **1 PDH** YEA Night
October 11, 2016 * At Westbury Manor Dinner Presentation— High-Performance Run-around Energy Recovery Systems Presenter: Rudolf Zaengerle **1 PDH**	April 11, 2017 ANNUAL FIELD TRIP - TBD
November 8, 2016 * At Westbury Manor Dinner Presentation-- Fitting Loss in Duct Construction Presenter: Eli P. Howard, III **1 PDH** Joint meeting with SMACNA Membership Promotion Student Activities Night and YEA Night Resource Promotion Night	April 20, 2017 ASHRAE Webcast - “Using Analytics to Drive Building Performance”
December 13, 2016 * At Westbury Manor HOLIDAY PARTY Free Buffet Dinner for Members	May 8, 2017 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 10, 2017 * At Westbury Manor Dinner Presentation— TBD Presenter: TBD **1 PDH**	May 9, 2017 * At Westbury Manor Dinner Presentation— TBD Presenter: TBD **1 PDH** Refrigeration Night Student Activities Night
January 28 to February 1, 2017 ASHRAE Winter Meeting Las Vegas, NV	June 13, 2017 * At Westbury Manor Free Buffet Dinner for Members PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways
February 21, 2017 * At Westbury Manor – <u>Note: 3rd Tuesday</u> Dinner Presentation—Chiller Plant System Design for Demand Reduction with Ice Storage Presenter: Justin Wieman **1 PDH** Membership Promotion Night Resource Promotion Night	June 2017 ANNUAL FISHING TRIP - TBD
February 19-25, 2017 NATIONAL ENGINEERS WEEK EJCLI Seminars	August 17-19, 2017 CHAPTERS’ REGIONAL CONFERENCE (CRC) REGION I HAUPPAUGE, LONG ISLAND, NY

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1987	Abe Rubenstein, PE
1959	Clyde Alston, PE	1988	Michael O'Rourke
1960	Sidney Walzer, PE	1989	Mel Deimel
1961	Sidney Gayle	1990	Robert Rabell
1962	William Kane	1991	Gerald Berman
1963	Louis Bloom	1992	Donald Stahl
1964	Milton Maxwell	1993	Ronald Kilcarr
1965	Will Reichenback	1994	Jerald Griliches
1966	Joseph Minton, PE	1995	Walter Stark
1967	Irwin Miller	1996	Joe Marino
1968	Walter Gilroy	1997	Norm Maxwell, PE
1969	Charles Henry	1998	Alan Goerke, PE
1970	William Wright	1999	Frank Morgigno
1971	Louis Lenz	2000	Michael Gerazounis, PE, LEED AP
1972	Ronald Levine	2001	Ray Schmitt
1973	Henry Schulman	2002	Steven M. Stein, PE
1974	Myron Goldberg	2003	Andrew Braum, PE
1975	John N. Haarhaus	2004	Claudio Darras, P.E.
1976	Richard K. Ennis	2005	Craig D. Marshall, P.E.
1977	Kenneth A. Graff	2006	John Nally
1978	Evans Lizardos, PE, LEED AP	2007	Peter Gerazounis, PE, LEED AP
1979	Albert Edelstein	2008	Steven Friedman, PE, HFDP, LEED AP
1980	Ralph Butler	2009	Steven Giammona, P.E., LEED AP
1981	Robert Rose, PE	2010	Nancy Román
1982	Timothy Murphy, PE	2011	Carolyn Arote
1983	Leon Taub, PE	2012	Brian Simkins, LEED AP
1984	Raymond Combs	2013	Andrew Manos, LEED AP BD+C
1985	Edward W. Hoffmann	2014	Richard L. Rosner, P.E.
1986	Jerome T. Norris, PE	2015	Thomas J. Fields, P.E., LEED AP



PAOE POINTS FOR 2016/2017

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	0	100	0	0	595	25	0	720

BOG Meeting Minutes

BOG Meeting, Long Island Chapter

Meeting Minutes for Approval

Tuesday September 13, 2016

5PM

Westbury Manor

Call to Order

Meeting called to order at 5:07 PM

Officers and BOG Attendance Roster		
Position	Name	Attendance
President	Don Kane	Yes
President-Elect	Andrew Dubel	Yes
Vice President	Richard Halley	Yes
Fiancial Secretary	Frank Paradiso	Yes
Treasurer	James Hanna	Yes
Secretary	Bill Artis	Yes
BOG1	Matthew Vitrano	Yes
BOG2	Murat Bayramoglu	Yes
BOG3	Michael Nigro	Yes
BOG4	Tom Fields	Yes
Quorum		Yes
Committee Chair Attendance Roster		
Position	Name	Attendance
Programs and Events	Andrew Dubel	Yes
Membership	Bill Artis	Yes
Refrigeration	Bill Artis	Yes
CTTC	Murat Bayramoglu	Yes
GGAC	Matthew Vitrano	Yes
Newsletter	Liset Cordero	No
RP	Frank Paradiso	Yes
Historian	Michael Nigro	Yes
Student Activites	James Hanna	Yes
YEA	Elizabeth Jedrlinic	Yes
Webmast	Vacant	No
Nominating	Michael Gerazounis	No
Reception	Michael Nigro	Yes
Public Relations	Andy Manos	Yes
CRC 2017	Richard Halley	Yes
Golf Outing	Peter Gerazounis	No
Awards	Brian Simkins	Yes

BOG Meeting Minutes (Cont'd. from Page 6)

Review of Agenda

Secretary (Bill Artis)

- Meetings minutes – Approval/Comments/Additions

President (Don Kane) [Chapter Operations: min-600/Par-1200]

- Welcome to new BOG and Committee Chairs
- PAOE
 - * Please keep up with this on a monthly basis, so nothing gets overlooked.
 - * Coordinate between committee chairs when there is overlap in PAOE credits
- Sounder
 - * Great job this month....we were able to get it out two weeks before the meeting, on schedule
 - * Next month's submissions should be sent to Liset no later than September 23rd.
- Web Site
 - * The Chapter Website is in drastic need of updating. This will be a priority for the next month
- CRC Expenses
 - * If you haven't already submitted you expenses for the CRC, please do so immediately
 - ◇ For those who do NOT get travel reimbursed by Society, the Chapter will reimburse.
 - ◇ Please use the ASHRAE expense for and submit, with receipts, to James Hanna
- Chapter Debit Cards
 - * For Direct Chapter Expenses
 - * For reimbursable expenses (e.g. personal travel to training or conferences) Do not use the chapter debit card. Submit the expense with receipts for reimbursement by the Chapter (otherwise it is difficult to track expenses for the annual IRS filing).
 - * If anticipated expenditure will be in excess of \$100, please submit to the BOG for prior approval.
 - * When Chapter Cards ARE used, please email James Hanna (cc: D. Kane) with the amount and the description and a copy of the receipt(s)
- CRC Awards
 - * Patches to be added to banner
 - * **Michael Nigro to complete**
- CRC 2017 – LI Chapter
 - * Rich Halley to give report
- Refrigeration
 - * Bill Artis – Chair of Refrigeration Committee
 - ◇ Actively looking to increase the Refrigeration activity in the Chapter
 - ◇ Additional participants on the committee are welcome
 - * Possible projects to submit for ASHRAE technical awards
 - ◇ Coordinate with Brian Simkins (Awards)
- MBOs
 - * Draft MBOs for submission to RVC prior to October 1st.
 - * Should be reasonable and achievable

Programs (Andrew DuBel)

- Cocktail Hour Sponsors
 - * Sponsorship Levels (Bill Artis)
 - * **Daikin Platinum sponsor- should have check by end of Sept/early October**
 - * **Bill Artis updated BOG on chapter sponsorship; encouraged each person to reach out for sponsors**
- Change in November Topic (Leakage) by Eli Howard – SMACNA
- **Looking into Arctic Glacier/Nuzzolese Ice for chapter field trip**

Chapter Technology Transfer (Murat Bayramoglu) [min-450/par-1050]

- Publicize Society Certifications and Training opportunities in *Sounder*
- Coordinate with Programs and Refrigeration
- Monthly speaker evaluation/attendance report to Region (Pete Oppelt)
- Arrangements for Distinguished Lecturer (Coordinate with Programs and Refrigeration)
 - * Request allocation from RVC
 - * Verify DL availability

BOG Meeting Minutes (Cont'd. from Page 7)

- Murat will request DL visits for chapter
- Speaker evaluation sheets
 - * Hand out
 - * Collect
 - * Collate
 - * Report to RVC (above)

Treasurer (James Hanna)

- Newsletter invoicing-Possibly to be handled by RP if this is where the \$ goes?
 - * Limits on "Ad" size in newsletter? (Tom Fields)
- Expenses/Reimbursements – Still need to recover Dues money that Society sent to NYC in error.
- Current Balance
- Outstanding expenses
- 2015 Region Assessment
 - * Need replacement check and stop payment on original
- 2016 Region Assessment
 - * As soon as we receive....we should pay and send certified mail this year.
- Chapter balance of \$21,660.00
- Remaining CRC expense reports must be submitted to James Hanna

CRC Treasurer (Don Kane)

- Current Balance \$5,464.90
- Outstanding Checks - \$1,000 deposit for dinner cruise
- Expenses to-date \$2,535.10

Grassroots Government Advocacy (Matthew Vitrano) [min-/par-650]

- Get local officials on mailing list.
- Meetings with local officials
- Vitrano to provide a list of local officials to RVC

Historian (Michael Nigro)[min-100/par-300]

- Articles/interviews of past presidents
- Digitizing records
 - * Nigro to complete
- Follow up with Neil Rosen on Habitat for Humanity – Update?
- Update History Boards for next CRC

Honors and Awards Chair (Brian Simkins)

- Service awards
- Technical awards
- Candidate Projects (?)
 - * Brian and Artis to coordinate on Refrigeration and Comfort Cooling projects for appropriate awards; submission deadline is May 1.

Research Promotion (Frank Paradiso)

- Status update
- Full Circle
 - * October 15th is Full Circle deadline
- Vendor Book
- 50/50

Membership Promotion (Bill Artis) [min-500/par-800]

- Manage Delinquencies
- Upgrade membership from associate to member
- Artis to identify candidates for upgrade
- Recognition of new members at chapter meetings
- Promote ASHRAE Certifications
- Brian Simkins Recognized for 20 years of service

BOG Meeting Minutes (Cont'd. from Page 8)

Student Activities (James Hanna) [min-300/par-500]

- Scholarships
 - * Start Early this year to publicize
- Student membership update.
- Stony Brook Chapter Update
- Suffolk, Hofstra, NYIT

YEA (Elizabeth Jedrlnic)

- Smart Start promotion
 - * Coordination with SA for end of year grads.
- Social functions
- Note – PAOE criteria for other committees are linked to YEA activities
 - * Need to coordinate
- Artis working on YEA/MP event for fall
- Will coordinate with CRC Committee (Frank Paradiso) for CRC 2017 YEA events

Reception & Attendance (Mike Nigro)

- Need to deputize additional people for Reception
- Provide tally of attendees (Cash/check/charge/IOU), Member/Non-Member/Student and receipts for the night to Treasurer (James Hanna)
- Original sign-in sheet to CTTC (Murat Bayramoglu) for Region report

Web Master

- Priority is to get Website back up to speed
- Current email alias have not been updated, please forward any email to the proper person until the website is sorted out.
- Bill Artis has beta website to use hosted by Weebly. Don Kane to follow up on whether or not to abandon current web site hosting before following up with using Weebly site.

CRC 2017 (Richard Halley)

- Update on the event planning
- Next Planning Meeting
- Video presentation at Rochester CRC
- CRC Committee meets 4th Tuesday of every Month at the Trane office in Plainview

Golf (Peter Gerazounis/Tom Fields)

- Get them involved in the CRC golf event planning, if they can.

Old Business

- Card Scanner
 - * Who is the "keeper"?
- Label Printer – Need to get membership data to expedite printing of labels
- Artis ordered name badges, badge holders, and chapter participation identifiers for use at chapter meetings Printing and maintaining of badges by other to be determined

New Business

Time/Place of next BOG Meeting – October 11, 2016 – Westbury Manor – 5PM

Motion to Adjourn

September Program



Dinner Presentation

“High Performance Run-around Energy Recovery Systems”

Presented by

Rudolf Zaengerle
President
Konvekta

**Attendees
 Will Earn
 1 PDH!**

DATE:	TUESDAY OCTOBER 11, 2016		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	Fee:	\$ 45.00 Member \$ 50.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 Directions are posted at @ www.ashraeli.org.		
Presentation:	At this month's presentation the following learning objectives will be discussed: <ul style="list-style-type: none"> • Understand basic thermodynamics of a run-around energy recovery system. • Identify drivers for demand-dependent controls of the entire energy recovery system. • Understand advantages and pitfalls of multi-functional energy recovery systems in laboratory buildings with variable air volumes. • Understand best practices in designing energy recovery systems. <p>All attendees will receive <u>1 PDH</u>.</p>		
About our Speaker:	Rudolf Zaengerle is the president of Konvekta's North American operation. Mr. Zaengerle holds a master's in mechanical engineering and a Ph.D. in business administration, both from the Swiss Federal Institute of Technology in Zurich. Dr. Zaengerle has also studied at the Harvard Business School, and has managed Swiss technology businesses in the United States for more than 20 years.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

Young Engineers in ASHRAE (YEA)

Summer is coming to a close and we have some exciting ASHRAE YEA Events coming up.

YEA Leadership Weekend

I will be attending the YEA Leadership weekend in Charlotte, NC from November 4th – November 6th. This is a great opportunity to expand your knowledge and meet other young engineers from across the country. Registration is still available for this event, but spaces are filling up quickly! Visit the website listed below to register.

<https://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/yea-leadership-weekend>



New Faces of Engineering

The New Faces of Engineering recognition program, is part of [National Engineers Week](#)—sponsored by DiscoveryE (a coalition of engineering societies, major corporations and government agencies). Engineers Week promotes New Faces to provide incentive to those in college and inspire even younger students to consider engineering careers. Engineers 30 years of age or younger are the focus of the recognition program. ASHRAE members are encouraged to nominate deserving young engineers so that they might have the opportunity to earn recognition in their chosen field.

Criteria for Nomination

Nominees/applicants must be 30 years or younger as of Dec. 31, 2016 and have a degree in engineering from a recognized U.S. college or university, or from an equivalent international educational institution. Degrees in engineering technology, science, computer science and similar disciplines do not qualify, though a degree in computer engineering is acceptable.

Nominations

Nominations for the 2017 New Face will open in the fall of 2016

Recognition

The individual selected as ASHRAE's New Face of Engineering 2016 will receive the following recognition:

- Attend the 2016 CIBSE Technical Symposium
- Featured in an ad in the ASHRAE Journal
- Promotion in YEA and ASHRAE newsletters and online

Make sure you check out the 2016 New Face of Engineering, Rachel Romero, P.E. on the ASHRAE website.

I will be putting together some local social events as well, so keep an eye out for those. Please reach out if you have any interest in joining this committee.

Elizabeth Jedrlinic
YEA Chair



Research Promotion

My name is Frank Paradiso and I am your RP chair for the 2016-2017 year for the Long Island ASHRAE chapter.



ASHRAE has a \$2.36 million dollar funding raising goal. This supports 140 research projects with a combined value of more than 15 million. The bar has been set pretty high by our former RP Chairs for our chapter's goals. This year we have a goal of \$18,000. Every year we try to exceed our goal and reach towards challenge goal. This year will be no different as the challenge is \$20,400. With your help I believe we can achieve it.

Our current RP year to date amount is \$2,175 which is about 12% of our goal.

I would like to acknowledge and thank all those who were generous enough to have donated early in ASHRAE's 2016-2017 RP campaign:

INDIVIDUALS

Peter Gerazounis, PE
Robert J Fuchs
John D Nally
Donald W Kane, PE
Andrew B Dubel
Murat Bayramoglu, MS
Andrew E Manos

COMPANIES

Anron Heating & Air Conditioning Inc

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

1) You can mail your checks, made out to ASHRAE Research Promotion, to:

Frank Paradiso
ASHRAE Research Promotion Chair
c/o Stony Brook University Research and Support Services,
Suite 160 Development Drive
Stony Brook, NY 11794-6010

2) You can bring your check to any of the meetings and give it to me. I will mail it into headquarters.

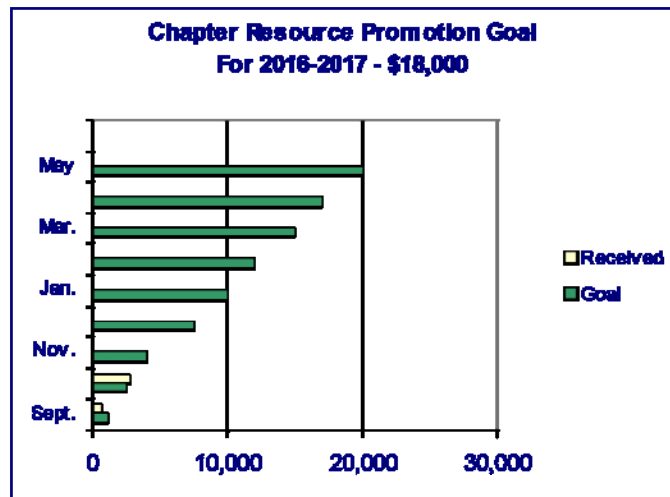
3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

4) You can contribute directly on-line. www.ashrae.org

*** Please make sure you accredit your contribution to the LONG ISLAND CHAPTER 006 ***

Thank you again for all of your support!

Frank Paradiso
Research Promotion Chair



Membership Promotion

For this month's edition of the Membership Promotion column, we are introducing our "Membership Profile" feature where we ask our members what got them into the HVAC industry and how ASHRAE has impacted their career. We are looking for members to be part of this feature for future months, so if you or someone you know would like to be featured, please email me at Artis.HVAC@gmail.com.

Leading off for our first feature is former Society President, Tom Watson, P.E, Fellow Life Member. Tom is Chief Engineer, Daikin Applied and oversees new product development for centrifugal compressor technology and is primarily involved in technical areas related to refrigerant applications, aerodynamics, bearing design and motor applications. He holds five patents related to refrigerant gas and chiller compressors.



Q: What attracted you to the HVAC industry, and what keeps you in the field?

My father took me to the train station every Sunday and I fell in love with steam engines and still am thrilled to see them. In college, my favorite subjects were thermodynamics and fluid dynamics and so anything that involved them would be a dream job.

The Sputnik satellite was launched when I was in the seventh grade, and many of my generation wanted to get into aerospace to answer the challenge. Luckily, I was on a Greyhound bus ride next to a mechanical engineering student from a local university; He told me that aerospace was very limited geographically, where mechanical engineer was less limiting, and one could still work in the space program as a mechanical engineer but had more options. As it turned out, by the time I got out of the Army, there were aerospace engineers looking for work in other fields.

I love our industry for the diversity of technology, and for geographic diversity. It offers so many different opportunities; such as aerodynamic, rotor dynamics, pressure vessel codes, refrigerant technology, and control technology.

Another key for me is the importance of our work. I have been involved with Legionnaire's Disease, and flammability of refrigerants, which are very different and important. There are more that I haven't even thought of that may be a future challenge.

Q: Can you tell us about some early positions that you had and how they may have influenced your career later on?

I started in industry as a design engineer for chiller products and as time went on I was the work became more and more interesting. Opportunities were presented to me to lead the manufacturing engineering team, and later became the director of quality assurance. Towards the end, I returned to my first love, which is machine design. My primary role now is passing on knowledge to the next generation of engineers.

Q: How did you get involved in ASHRAE?

Again, I was very fortunate to have a boss who, when I started, that told me that I need to belong to engineering societies; I joined ASME in 1962 and ASHRAE in 1972. When I got my first handbook, I was hooked on ASHRAE as it provided so much to me that contributed to my growth. I started going the Winter and Annual meetings and joined TC 8.2, and this was an amazing group of veteran chiller engineers who took me under their wing. It is still a committee that I wish I could spend more time with.

Q: How did participation at the Society levels affect your career, and what were some of the things that stood out to you as the biggest benefits of being involved?

As mentioned above, I joined ASHRAE and was primarily involved in the Society. When I joined standards committees, such as SSPC-15 and SSPC-34, my technical education through ASHRAE really began. Moreover, I saw some very successful leaders who could obtain consensus on tough issues with persons with very different viewpoints, and before I knew it, I was chair of Standard 15 and then joined the Standards Committee and became chair of that.

I became a Director-at-Large a few years later and was exposed by my Director and Regional Chair to the local chapter activities. He asked me to help with chapter visits and help with regional training programs, which was a great experience.

Membership Promotion (Cont'd. from Page 9)

Q: What advice would you give to a young engineer looking to advance their career, and how do you think ASHRAE involvement will benefit them?

Of course, the times are very different now, but I think the principles remain the same as when I first joined the industry. The ability to interact with others in a positive way under difficult circumstances is as important as the technical side, and ASHRAE provided me with wonderful role models through the years by allowing me to work with persons who were of the highest integrity and technical knowledge in our business. It has been said by many people that being a part of the grassroots side is very important, but also participating in the technical side by joining ASHRAE TCs (technical committees) gives insight that cannot be gained otherwise.

Bill Artis
Membership Promotion Chair

Andrew Blom
Membership Promotion Co-Chair

History

I wanted to thank everyone for coming to the September ASHRAE meeting last month. It was a great presentation and turnout!

Ever wonder when the first use of radiant floors was implemented? The article below may surprise you!

Underfloor heating systems, the original radiant panel systems, seem to have first appeared in the Middle East. King Arzawa installed such a system in his palace at Beycesutan, Turkey, about 1300 B.C.

The Romans brought the technology to high art, beginning about 80 B.C. with systems designed by Sergius Orata. At first the Roman systems heated only the floor, but later systems used heated walls as well, and some were designed as early warm-air heating systems, introducing heated air through floor openings.

The first systems supported the stone floor on pillars over a chamber with a fire at one end. Combustion gases passed under the floor to the other side. The hollow space below the floor was called the *hypocaust*, and this name was applied to all the variations of Roman heating systems where an underfloor chamber was used.

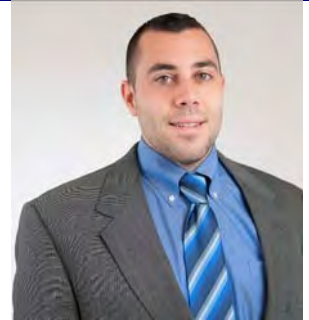
Later systems used tile flues or hollow tile walls to conduct heated combustion products to eave vents. The fire was moved outside in a separate furnace chamber. Still later, the hypocaust chamber was eliminated and replaced by floor ducts leading from the furnace to the wall flues.

Roman hypocaust heating systems were used to heat upper-class Roman houses throughout the empire, but are most noted for use as heating systems for public baths. Between 10 B.C. and 324 A.D., at least 17 major public baths were constructed using hypocaust systems.

A test conducted at the well-preserved Constantinian Baths constructed about 300 in Trier showed that these systems were very efficient. The hypocaust for the audience hall of the bath operated with a floor temperature of 77deg to 95degF and wall temperatures of 66deg to 90deg, consuming 300 lbs/hr of wood at about 90% efficiency. The system, of course, was not automatic and not easily controlled. It took two days to preheat.

The art and science of hypocaust systems was lost after the fall of the Roman Empire. Western heating science advanced very little in the period of the Dark Ages.

Michael Nigro
History Chair



Grassroots Government Activities Committee (GGAC)

Thank you everyone for coming to our September meeting, it was a success!

New York State recently put into effect new cooling tower regulations in response to the legionella outbreak of last summer. These regulations apply to any cooling tower and any hospital or healthcare facilities in New York State. Cooling towers must be registered with the state and inspected before start-up every year, and water sampling must be done as part of a routine maintenance schedule. These practices will reduce the likelihood of legionella forming in the water.

Please see the website below for more information on the regulations:

http://www.health.ny.gov/press/releases/2016/2016-07-19_legionella_regulations_in_effect.htm

Matthew J. Vitrano
Grassroots Government Activities Chair



Student Activities

We are off to a good start this year for the Student Activities Committee. This month our chapter welcomed two new student members. The first is a student from NY Maritime College State University. The second is a student from Binghamton University.

As a reminder As always we are looking for ASHRAE handbooks in good condition that are no longer in use and could be given to our student members. If you have are in position of a hand book or two please bring them into the chapter meeting and we will find them a new home.

We also encourage you to check out the ASHRAE student's zone at <http://www.ashrae.org/students/>. Information on society level design completions, scholarship and grant programs can all be found here.

James Hanna
Student Activities Chair



CTTC

ASHRAE has been setting HVAC-R standards since the end of the 19th century. Industrial revolution demanded ice to evolve; to be able to preserve more food and medicine to feed and cure more people. There were resources had already been discovered back then, and ice request had found an answer. Scientists discovered thermodynamics science and managed to move heat from a source to a sink mechanically, which we call it refrigeration cycle. Obviously, there were heating systems before the industrial revolution, but while humanity started to live in more densely populated locations, more complicated heating systems demanded. ASHRAE people were ready to set heating standards. Then ventilation, air conditioning standards came after.



After world oil crises in 1970s, energy efficiency became an important issue and ASHRAE set energy audit standards. Since 1982, ASHRAE people set commissioning standards as a response to quality request. Commissioning process is defined as *"The commissioning process is a quality oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria."* Simply quality control. In this issue, we requested from Mr. Steve Sonmez, PE, CEM, CxA, LEED AP, who works with Lizardos Engineering Associates, to share his experiences with the commissioning process. We appreciate his efforts and would like to thank him on behalf of ASHRAE-LI people.

I will be seeking professionals who would contribute CTTC by providing either technical or non-technical HVAC-R business related articles to Long Island Sounder. As much as we share our business experiences with our fellow HVAC-R people, we would have a chance to build more creative, more productive environment. Topics may include but not limited to: heating, cooling, AC, controls systems, testing and balancing, commissioning, design, management, finance, contracting, or on more specific equipment such as boilers, chillers, cooling towers, pumps, fans, or other standards such as LEED, IAQ, codes etc. As of in the past ASHRAE people responded to various types of industry demands to be able to increase human comfort within enclosures, sooner or later, human comfort will be effected directly by outdoor environment conditions, should ASHRAE involve in more environmental studies?

Let's ask this issue's question: Do you think ASHRAE should involve in more sustainability studies, or city planning? Where should ASHRAE stand about micro/mini grid systems?

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process
- Allow non-native English speakers additional testing time



HVAC Design Training

City	Level I	Level II
Baltimore	October 3-5, 2016	October 6-7, 2016
Phoenix	October 17-19, 2016	October 20-21, 2016
Dubai	November 6-8, 2016	November 9-10, 2016
Atlanta	December 5-7, 2016	December 8-9, 2016

Murat Bayramoglu
CTTC Chair

Cont'd. on Page 13

CTTC (Cont'd. from Page 12)

BUILDING HVAC COMMISSIONING

By Steve S. Sonmez, P.E., C.E.M.

Associate / Director of Commissioning Services

Lizardos Engineering Associates

Commissioning is a formalized functional performance test of an entire building's systems; in other words, a process that validates, verifies and documents the builder's project objectives have been fully met. The intent is to independently confirm newly built, renovated or existing buildings work the way they're supposed to. Retro-commissioning applies to existing buildings and it is more common to solve operational problems and seeks to improve how building equipment and systems function together.



2012 International Energy Conservation Code, which is widely accepted in most states, indicates that Commissioning is required on mechanical equipment and controls except for simple systems where mechanical equipment capacity is less than 480,000 Btu/h cooling capacity and 600,000 Btu/h heating capacity. Some local jurisdictions, like New York City, also requires a final commissioning report submission for buildings 500,000 gross square feet or greater (NYC Energy Conservation Code C408.2.5.4).

LEED also requires commissioning as part of their scorecard. LEED Basic Commissioning is a prerequisite and usually called the meat and potatoes of the commissioning process. It usually takes place during and after construction. Enhanced commissioning on the other hand, is a credit in the LEED rating system and takes place during design phase by reviewing design documents, submittals as well as 10-month walk through to review building operations with the owner. The intent is to review the operation of the building before standard 12-month contractor warranties expire.

So the question is: How does a user of commissioning services determine who is qualified to provide those services?

Currently there is no degree in Building Commissioning, so learning about the process involves courses, self-study and, most importantly, experience in design, construction and maintenance. Most Commissioning Authorities often have knowledge and experience related to HVAC and temperature controls. However there are others in the field with different discipline specialties or have experience with specialized building types.

There is no universally recognized "best" certification to become a commissioning authority. Certifications are provided by organizations such as ASHRAE, Building Commissioning Association, the Association of Energy Engineers, the University of Wisconsin, and The Associated Air Balance Council (AABC) Commissioning Group (ACG). These certification programs often require a B.S. in engineering, experience on commissioning projects (such as through an apprenticeship), and passing an exam.

Some of the aspects of what to look for when selecting commissioning agents are:

- **Certification:** Individuals are certified rather than firms. Ensure commissioning agent individual and all team members projected to work on your project are certified.
- **Engineering background:** Design background is highly beneficial for maximum savings opportunities as well as discovering potential design errors especially if the commissioning agent is engaged in the early stages of the project. A third party agent brings a completely new pair of eyes and a fresh outlook, delivering a truly independent perspective. Some commissioning agents are also professional engineers (P.E.). Professional Engineer who leads the commissioning group should be preferred for obvious reasons.
- **Interview the commissioning team:** Interview the entire team rather than just the person presented in the proposal. Remember it is the person, not the firm that is qualified for commissioning.
- **Experience:** Commissioning requires extensive understanding of mechanical and electrical systems. Related commissioning experience is important to achieve commissioning goals. Look for relevant commissioning projects completed and ask for references. A Commissioning Agent should have technical background and in depth expertise with the commissioning process including verification, functional performance testing, system equipment and O&M knowledge.
- **Communication:** Strong communication skills are necessary to transmit information when identifying issues. Remember no one likes a finger pointed at them therefore handling communication is extremely important in resolving the issues.

Refrigeration

Hello, and welcome to this month's Refrigeration column. I'm going to keep this one short and sweet, and focus on keeping track of updates to building codes, and ASHRAE Standards and Guidelines. With all of the codes and standards we have to reference on a daily basis, it can be fairly daunting when it comes to keeping up with updates, especially since the local code cycles are often out of sync with updates to model codes and industry standards. Oh, did I forget to mention keeping track of addenda, errata, and interpretations?

For you gluttons for punishment out there who sat through my presentation last month on "Code Compliance Considerations for VRF Applications", keep in mind that we referenced 10 different codes and standards! That's a lot to keep track of.



But fear not, there are tools available to help you keep track of what applies where and how to find updates.

For keeping track of updates to ASHRAE Standards, I strongly recommend subscribing to Standards that you are interested in via ASHRAE Listserves. Here you can subscribe to mailing lists for some of ASHRAE's most commonly referenced Standards, such as 90.1, 189.1, 62.1, Task Group publications, Publication updates, and a lot more.

I signed up for a few of these, and whenever the committees responsible for these documents set up a meeting you get an update and information on the meeting. The listserves link is below:

<https://www.ashrae.org/resources--publications/periodicals/subscribe-to-listserves>

Next, you can subscribe to the Standards Actions List Server below. This is a weekly update that includes changes and updates to current standards and makes it easy to keep track of regularly.

<https://www.ashrae.org/standards-research--technology/public-review-drafts>
<https://www.ashrae.org/standards-research--technology/standards-actions>

For local code adoption, I have found the "Building Codes Assistance Project" to be very helpful in determining what the local codes and referenced standards are for different areas.

<http://bcap-energy.org/>

For NYC specifically, the building and energy codes (the 2016 City energy code is now posted!) are located on the Department of Building website at:

<https://www1.nyc.gov/site/buildings/codes/nyc-code.page>

For NYS, the model code (ICC) that the state code is based on (with NYS supplements and addenda) can be found at:

<http://premiumaccess.iccsafe.org/collections/NY>

More information pertaining to NYS building and energy codes can be found at:

<http://www.dos.ny.gov/dcea/CodeUpdate.html>

Bill Artis
Refrigeration Chair

Andrew Blom
Refrigeration Co-Chair

CRC 2017

ASHRAE CRC Committee
Meeting Notes of August 23, 2016

Meeting attended by:	Rich Halley, Don Kane, Andy Manos, Mike O'Rourke, Frank Paradiso, Andrew Blom, Bill Artis, Murat Bayramoglu, & Diane Braccia	
Absent from meeting:	James Hanna & Ron Kilcarr	
Date:	August 23, 2016	
Time:	5:00 – 6:30 pm	
Facilitator:	Rich Halley	
Agenda Topic #1: Rich Halley Debriefing of CRC 2016 in Rochester, NY	Deadlines:	
Notes: Rich spoke about the Rochester CRC held August 18 -20, 2016		
Action Items: Sponsorship breakfast Insurance needed for Boat Validate with society appropriate gift for society guests Distinguished guest list CRC Website to be set up and go live		Review at next scheduled meeting
Agenda Topic #2: Golf Outing at Wind Watch Golf & Country Club		
Notes: Contract signed with Wind Watch. Mike O' Rourke gave \$1,000 deposit. Buffet breakfast will be served. Shotgun start at 8:00 AM. Deli lunch served at the end. Beverage cart and halfway house available with water, candy, snacks. Golf cost to members \$195. Non-members, \$245. To reserve whole golf course, need minimum of 72 people and need to reserve 3 months prior to event. Rich feels we will have enough people to reach minimum of 72 people for golf outing.		
Action Items: Go over arrangements		Review at next scheduled meeting
Agenda Topic #3: Don Kane and Rich Halley have bank accounts set up		
Notes: Rich & Don Kane have opened up accounts for ASHRAE & CRC. There is a balance of \$5,489.93		
Action Items: Andy was given a check for the \$1,000 deposit to reserve the Lauren Kristy for the dinner cruise event on Friday evening.		Review at next scheduled meeting
Agenda Topic #4: Social Activities – Andy Manos & Frank Paradiso		
Notes: Danfords is reserved for Thursday evening from 6 – 10 pm YEA Event being chaired by Liz Jedrlinic and Frank Paradiso Presidential Dinner will be on Lauren Kristy Paddlewheeler Friday evening. Time 6- 10 pm, buffet menu.		
Action Items: Choose Menu for Presidential Dinner Andy to confirm max seating on boat We will need entertainment for dinner cruise		Review at next scheduled meeting

CRC 2017

**ASHRAE CRC Committee
Meeting Notes of August 23, 2016**

Agenda Topic #5: Sponsorship/Attendance	
Notes: Sponsorship flyer completed and sent to Andy Manos Rich has gotten Trane & Carrier for Platinum Sponsorship Andy lining up more sponsors Andrew Blom to help drive other chapters attendance at CRC2017	
Action Items: Update on Sponsorship Andrew Blom to contact President/President Elect to drive other chapter attendance in November 2016 and January 2017 for CRC2017	Review at next scheduled meeting
Agenda Topic #6: Advertising	
Notes: James Hanna working on a CRC 2017 Flyer to handout at ASHRAE local meeting in September/October 2016. James to work on Booklet handout for CRC August 2017	
Action Items: Flyer to go out at Fall ASHRAE Meeting. Andy Manos's wife to help with list of family activities Set up Booklet, print booklet for review with group before finished copies are made for August	Review at next scheduled meeting
Agenda Topic #7: Goody Bags	
Notes: It has been decided we will be purchasing Picnic Baskets as Goody Bags Goody bag items: Tate's cookies, North fork potato chips, Montauk beer, wine from wineries	
Action Items: Andy needs to get boxes to ship goody bags Need to purchase/receive donations for goody items Need to order 1 picnic basket to confirm we will use it	Review at next scheduled meeting
Agenda Topic #8: Technical Presentation & Tours	
Notes: Ron Kilcarr has reserved Calmac Technical Presentation with Mark MacCracken Mather Hospital Tour	
Action Items: Need to make sure MacCracken changes preso so we can get PDH credits Talk about Mather Tour	Review at next scheduled meeting
Agenda Topic #9: Transportation	
Notes: May use McCarney Tours Murat has some connections with bus company	
Action Items: Murat to give us quotes on smaller buses Diane to call McCarney and get quotes on venues we are going to be attending	Review at next scheduled meeting
Agenda Topic #10: Miscellaneous	
Notes:	

CRC 2017**ASHRAE CRC Committee
Meeting Notes of August 23, 2016**

Order Plaques, need photographer, order shirts	
Next Meeting: Tuesday, September 27 @ 5:00 pm at Trane, Plainview Office	

September Chapter Meeting Photos



September Chapter Meeting Photos



Chapter Service Awards

Congratulations to the following Chapter Service Award recipients:

Carolyn Arote

Brian Simkins

Nancy Román

Richard Rosner, PE

Frank Morgigno

Craig Marshall, PE

Joseph Marino

Evans Lizardos, PE

Ronald Kilcarr, PE

Peter Gerazounis, PE

Michael Gerazounis, PE

Steven Friedman, PE

Andrew Braum



ASHRAE: Lowest Rates Available for Annual Conference



Register today for the ASHRAE Conference in St. Louis. Take advantage of the opportunity to discuss and examine the latest topics in the building industry and earn professional development credits. Hotels are filling up quickly!

[Register before rates increase on April 27. You can register at \[www.ashrae.org/stlouis\]\(http://www.ashrae.org/stlouis\).](http://www.ashrae.org/stlouis)

The technical sessions offer an excellent opportunity to learn the results of cutting-edge research and the latest standards that affect the built environment. Topics include nearly every technology used in HVAC&R including alternative refrigerants, fire and smoke control, smart control systems and sources and efficient utilization of renewable energy. In addition, learn the personal and business skills necessary to become and remain a leader in our industry.

The Technical Program features eight tracks, 108 sessions and more than 400 speakers. The program offers over 130 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license, including the state of Florida, AIA LUs and LEED AP credits. Check out the new interactive Technical Program to find the topics, sessions and speakers of most interest to you! Featuring options to search by track, program type, date and keyword, the interactive Technical Program provides a detailed look at each session from color-coded tracks to sponsoring committees. Access, browse and bookmark the feature on your computer, tablet or smartphone.

[The interactive Technical Program is available at \[www.ashrae.org/stlouisinteractivetechprogram\]\(http://www.ashrae.org/stlouisinteractivetechprogram\).](http://www.ashrae.org/stlouisinteractivetechprogram)

Technical Program	
Browse/Search	2016 ASHRAE Annual Conference: Tracks
Browse by Day	ADVANCES IN REFRIGERATION SYSTEMS AND ALTERNATIVE REFRIGERANTS
Browse by Program	FUNDAMENTALS AND APPLICATIONS
Track Index	HVAC SYSTEMS AND EQUIPMENT
Presenter Index	INDOOR ENVIRONMENT: HEALTH, COMFORT, PRODUCTIVITY
	PROFESSIONAL SKILLS BEYOND ENGINEERING
	RENEWABLE ENERGY SYSTEMS AND NET ZERO BUILDINGS
	RESEARCH SUMMIT
	SMART BUILDING SYSTEMS/REMOTE MONITORING AND DIAGNOSTICS

Can't attend the Conference but want to tap into the technology? [Check out the Virtual Conference option for the 2016 Annual Conference as well as previous ones.](#)

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Thank you for your support, and don't forget to look for your local ASHRAE chapter on Facebook, Twitter, and LinkedIn.

Thank you,
ASHRAE Marketing

PS: Did you know ASHRAE now has over 55,000 members? Thank you for helping to spread the word about ASHRAE! Questions? Email marketing@ashrae.org

Fall 2016 Online Courses

Fall 2016 Online Courses

Learn at your computer with instructor-led online courses in real time from ASHRAE Learning Institute
CEU/PDH Credits Available



Register Early & Save

Register before September 16:

\$264 (\$199 ASHRAE Member)

Two-part Courses: \$464 (\$339 ASHRAE Member)

Register after September 16:

\$284 (\$219 ASHRAE Member)

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

Take three or more courses and save 15%

Two Ways to Register

1. Internet

www.ashrae.org/onlinecourses

2. Phone

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

NOTE: You may register up to 24 hours prior to an online course.
Course times are in Eastern US Time Zone.

Earn 3 PDHs/AIA LUs or .3 CEUs | Take 3 or more Courses & SAVE!
Courses are archived for a period of time after their initial presentation.

Commissioning

Commissioning Process in New & Existing Buildings

Part 1 - Mon, October 24, 2016, 1:00 pm to 4:00 pm, EDT

Part 2 - Wed, October 26, 2016, 1:00 pm to 4:00 pm, EDT

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

Environmental Quality

Updated! Troubleshooting Humidity Control Problems (IAQ Practices)

Tues, October 25, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Lew Harriman, P.E., Member ASHRAE, HBDP, LEED® AP

Energy Efficiency

Basics of Combined Heat & Power (ES Practices)

Wed, October 19, 2016, 1:00 pm to 4:00 pm, EDT

Instructors: Lucas Hyman, P.E., Member ASHRAE, LEED®

Combined Heat & Power: Creating Efficiency through Design & Operations (ES Practices)

Thurs, October 20, 2016, 1:00 pm to 4:00 pm, EDT

Instructors: Lucas Hyman, P.E., Member ASHRAE, LEED® AP

Fall 2016 Online Courses

HVAC Applications

Updated! Design of Affordable and Efficient Ground Source Heat Pump Systems

Mon, November 7, 2016, 1:00 pm to 4:00 pm, EST

Instructor: Steve Kavanaugh, Member ASHRAE

Designing High-Performance Healthcare HVAC Systems

Tues, October 4, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Dan Koenigshofer, P.E., Member ASHRAE, HFD

Laboratory Design: The Basics and Beyond

Thurs, October 13, 2016, 1:00 pm to 4:00 pm, EDT

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

Understanding and Designing Dedicated Outdoor Air Systems (DOAS)

Tues, October 11, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Stanley Mumma, Ph.D., P.E., Fellow/Life Member ASHRAE

Standards & Guidelines

Complying with Standard 90.1-2013: HVAC/Mechanical (ES Practices)

Mon, September 26, 2016, 1:00 pm to 4:00 pm, EDT

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

Fundamentals and Applications of Standard 55 (IAQ Practices)

Tues, September 20, 2016, 1:00 pm to 4:00 pm, EDT

Instructors: Peter Alspach, P.E., Member ASHRAE, LEED® AP, Robert Bean, R.E.T., Member ASHRAE and Lawrence Schoen, P.E., Fellow ASHRAE

NEW! Fundamental Requirements of Standard 62.1-2016 (IAQ Practices)

Wed, November 9, 2016, 1:00 pm to 4:00 pm, EST

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

Understanding Standard 189.1-2014 for High-Performance Green Buildings (ES Practices)

Wed, October 12, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Tom Lawrence, Ph.D., P.E., Member ASHRAE, LEED® AP

\$\$\$ SAVE MONEY \$\$\$

ASHRAE-LI is now offering Ticket Books for our Monthly Meeting/Dinner presentations. \$450 for a book of Eleven (that's right....eleven, one better than ten) tickets for the price of ten member admissions. Tickets are valid until December of 2017 and may be used by members and non-members. For those of you who attend all or most of our meetings and for organizations who normally send large groups to the meetings, this is a great way to save a few dollars and speed up the entry process. For more information and/or to purchase ticket books, please contact Don Kane at cttc@ashraeli.org or call 631-574-4870.



ASHRAE CERTIFICATIONS

Certification



ASHRAE, accredited by ANSI under ISO/IEC 17024 for the High-Performance Building Design Professional (HBDP) program, has certified more than 2,000 Built Environmental Professionals.

Energy Assessment

Energy Modeling

Commissioning

Healthcare
Facility Design

High-Performance
Building Design

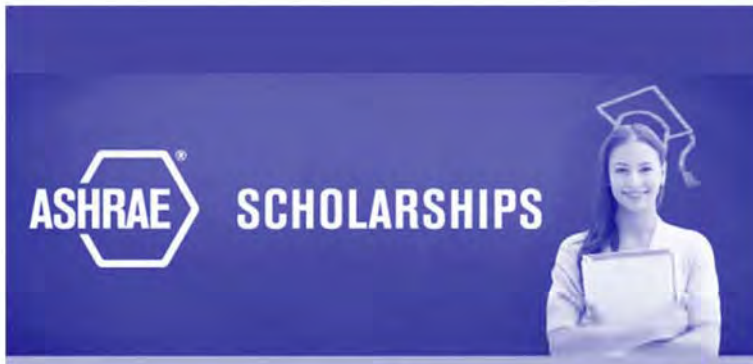
Building Operations

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process

FOR MORE INFORMATION GO TO - <https://www.ashrae.org/education--certification/certification>

ASHRAE SCHOLARSHIPS



Help make students aware of this financial assistance!

Through its scholarships, ASHRAE seeks to motivate students worldwide to pursue an engineering or technology career in the HVAC&R field. The Society's Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R.

ASHRAE has 33 scholarships available for the 2017–18 school year, for high school seniors entering college through senior undergraduate engineering students and engineering technology students. **ASHRAE is seeking your assistance in making students aware of this financial assistance.**

- 11 regional/chapter and university-specific scholarships - \$3,000 to \$5,000 each. **Now accepting applications!**
- 13 undergraduate engineering scholarships - \$3,000 to \$10,000 each. **Now accepting applications!**
- 1 freshman engineering scholarship - \$5,000
- 4 high school senior scholarships - \$3,000 each
- 4 engineering technology scholarships - \$5,000 each

Qualified students are encouraged to apply at www.ashrae.org/scholarships.



"The financial support that you provided to me will be a great help to pay my educational expenses. Your generosity has taken me to be one step closer in achieving my educational and career goals. When I graduate, I hope that I can use what I have learned, along with all of the experiences that I've had at MNSU, to give back to others and help them in pursuing their goals just as you have helped me." *Aldo Kusnardi, Minnesota State University, Mechanical Engineering, Reuben Trane Scholarship, 2016-2017*

Don't Miss Out!

Annual Application Deadlines:

December 1 for undergraduate engineering, regional/chapter and university-specific scholarships

May 1 for engineering technology, freshman and high school senior scholarships

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For complete eligibility requirements and an application, visit www.ashrae.org/scholarships

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If you would like to place an advertisement in the Long Island Sounder, please contact our Chapter Financial Secretary, Frank Paradiso @ 631-632-2791 or by email at finsec@ashraeli.org for further details. Thank you.

Rates (includes all issues September-June):


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