

THE LONG ISLAND SOUNDER



ASHRAE Long Island Chapter, Region I...Founded in 1957

www.ashraeli.org

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

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President's Message

October's meeting was well attended, and those present came away from Rudolph Zaengerle's presentation with a better understanding of High Performance, Run-Around Energy Recovery Systems, including the underlying thermodynamics, benefits of isolation and improved efficiency, and the need for demand-dependent controls (taking into account outside air temperature, entering exhaust air temperature as well as outside-air and exhaust-air flows). Providing interesting and educational presentations is an important function of our Chapter, in addition to the opportunity to network with others in the field, while enjoying a delicious meal.



For those who wish to get their learning in larger blocks of information, mark your calendars for the ASHRAE Winter Meeting, January 28 through February 1, 2017, being held in Las Vegas (held in conjunction with the AHR Expo..where you can keep up-to-date on all of the latest tools and equipment for the HVAC/R industry). For those of you who do attend, please let us know so the Chapter get recognition for its members' participation.

This year, the Chapter has started a "Chapter Sponsorship" program, and we would like to thank Daikin for signing up at the Platinum Level for this year. For those of you who want more information regarding this program, please contact Bill Artis.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, November 8, 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

Our November meeting will highlight: Membership Promotion/YEA/ Student Activities, Research Promotion, as well as being a joint meeting with SMACNA. There will be something for everyone, and the cross-pollination between MP, YEA and SA is an important factor in the continued growth of the Chapter (more on this in a bit). Eli P. Howard, III - Executive Director of Technical Services for SMACNA, will be our featured speaker, presenting on "Fitting Loss in Duct Construction".

While pondering Eli's topic, it occurred to me that the proper design and fabrication of ductwork has many parallels with the effective operation of an organization (such as our Long Island Chapter). While the properly designed ductwork provides for the introduction, conditioning and distribution of air in order to provide an acceptable environment, an effective organization must bring in, train and distribute its resources (members) to the areas where they are needed to keep the organization functioning. Like the duct system, if the organizational path has too many restrictions, leaks or total failures it will not operate at a high level

Cont'd. on Page 2

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

of efficiency, and the components of that system (officers and committee chairs and committee members) will be overloaded and not function as desired. While ASHRAE may seem to be a huge "machine" (international in scope), the Chapter level provides an easy entry point for those wishing to get involved. Many start at the Associate level, never upgrading to full member and then find that, for certain positions, one must be a full member. To eliminate (or at least minimize) this "restriction", Bill Artis, as Membership Promotion Chair, has undertaken a review of our chapter's membership and identified those who qualify for full Member grade and has submitted those individuals for the appropriate upgrades. This incurs no additional cost for the member, and will assure that they will be eligible for any position in the organization.

Again referring to our duct analog, organizational leakage includes those members who, when renewing their Society membership, have not elected to pay their Chapter dues at the same time (which would be sent by the Society to the Chapter). In those cases, we will be reminding our members when their Chapter dues are outstanding, so they can be paid to the Chapter. Finally, similarly to when a duct connection fails, when members do not renew, it becomes a total loss to the system. We lose not only the individual who does not renew but others that he or she comes into daily contact with who will not be exposed to the ASHRAE Story. Again, we try to follow up with those who fail to renew to find out why and, many times it is because of a perception that the Chapter Programs do not mesh with the individual's needs and interests. If you become aware of a member who feels that the Chapter and/or Society is not germane to their needs (or if you, yourself ever feels this way) please direct them to contact any Officer or committee person so we can be aware of the changing needs of the membership, (provide comments on the Speaker Evaluation Sheets that are distributed at each meeting). We want to keep the Chapter strong, and continued membership is the way to do that. To that end, we hope to establish a connection between the Student Activity/YEA/Membership Promotion committees to ensure that we can attract and retain a continuing stream of members. If you are sitting next to a Student member at a Chapter meeting, try to make them feel at ease...ask them what their goals are and give them some insight into the HVAC/R world.

I look forward to seeing you all at the next meeting.

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	370	100	345	185	925	25	0	1,950

BOG Meeting Minutes

BOG Meeting, Long Island Chapter

Meeting Minutes for Approval

Tuesday October 11, 2016

5PM

Westbury Manor

Call to Order

Secretary (Bill Artis)

- Meetings minutes – approval
- Comments/Additions
- **Minutes Approved**

President (Don Kane) [Chapter Operations: min-600/Par-1200/595]

- PAOE
 - Please keep up with this on a monthly basis, so nothing gets overlooked.
- Sounder
 - Next month's submissions should be sent to Liset no later than October 17th.
- Web Site
 - Ongoing
- CRC Expenses
 - Have all expenses been submitted?
 - Several outstanding expenses
- CRC (Chapter) Reimbursements
 - Has this been submitted to Region 1?
- CRC Awards
 - Patches added to banner?
 - To be added prior to next chapter meeting
- MBOs

Programs (Andrew DuBel)

- Cocktail Hour Sponsors
 - Sponsorship Levels (Bill Artis)
 - Trane to sponsor November meeting (\$1,000)
- Back to Basics?
- Field Trips
 - Brookhaven NL/ Glacial Artic suggested- membership survey to be sent out to gauge interest

Chapter Technology Transfer (Murat Bayramoglu) [min-450/par-1050/25]

- 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

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)
- Dues sent to NYC in error.
- Current Balance
 - \$18,617.15 as of October 11th 2016
- 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.

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

CRC Treasurer (Don Kane)

- Current Balance
- Expenses to-date
- Income

Grassroots Government Advocacy (Matthew Vitrano) [min-/par-650/0]

- Get local officials on mailing list.
- Meetings with local officials
- Artis to cover employer recognition

Historian (Michael Nigro)[min-100/par-300/185]

- Articles/interviews of past presidents
- Digitizing records
- Follow up with Neil Rosen on Habitat for Humanity – Update?

Honors and Awards Chair (Brian Simkins)

- Service awards
- Technical awards
- Candidate Projects (?)

Research Promotion (Frank Paradiso)

- Status update
- Full Circle
- Vendor Book
- 50/50
- RP at \$2175.00 not including sponsorship money

Membership Promotion (Bill Artis)

- **[min-500/par-800/410]**31 Members submitted for advancement from Associate to Member (27 accepted)
- RVC Goal is 6 new members, we have 3 so far
- Current PAOE count is ~560pts
- Career Development Panel Discussion Event
 - Evans Lizardos/ Jeff Daniels/ Tom Fields accepted to be speakers
 - MEMBERS ONLY event in addition to regular chapter meeting
- YEA/MP Brewery Tour planned for December
- 6 new members to be recognized in November

Student Activities (James Hanna) [min-300/par-500/100]

- Scholarships
 - Start Early this year to publicize
- Student membership update.
- Stony Brook Chapter Update
- Suffolk, Hofstra, NYIT
- Paul Cooper is SCC branch advisor
- Student night in November
- **YEA (Elizabeth Jedrlinic)**
- Smart Start promotion
- Social functions
- CT-NY-LI-Westchester joint YEA event being planned by Liz
- Liz will be attending the YEA event for ASHRAE

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

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.
- Priority for November agenda

CRC 2017 (Richard Halley)

- Update on the event planning
- Next Planning Meeting (4th Tuesday of every month)

Golf (Peter Gerazounis/Tom Fields)

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

Old Business

- Label Printer – Need to get membership data to expedite printing of labels

New Business

- Update constitution and bylaws- circulate for comment

Time/Place of next BOG Meeting – November 8, 2016 – Westbury Manor – 5PM

Motion to Adjourn

November Program



Dinner Presentation

“HVAC Systems Duct Design”

Presented by

Eli P. Howard, III

**Executive Director Technical Services
SMACNA**



**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY NOVEMBER 8, 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:	HVAC Air distribution systems need to be effective and efficient to provide comfort to the occupants and cost-effective from a design/construction/operational perspective. Today's session will explore sustainable air distribution systems that incorporate proper duct fitting selection, and construction of ductwork per SMACNA Standards and ASHRAE guidance documents. All attendees will receive <u>1 PDH</u>. In addition November's meeting is our joint meeting with SMACNA		
About our Speaker:	As SMACNA's Executive Director Technical Services, Eli Howard has the overall responsibilities of the more than 30+ SMACNA Technical and ANSI Standards related to the HVAC and Sheet Metal Industry. He is a member of ASHRAE Technical Committees: 90.1 Energy Standard for Buildings Except Low-Rise Residential; SSPC 62.1 Ventilation for Acceptable IAQ; 7.2 HVAC&R Construction and Design Build Technologies; SPC 171P Method of Test of Seismic Restraints for HVAC&R Equipment He has additional responsibilities as SMACNA Liaison to: NFPA 90A & 90B; International Code Council (ICC); Canadian Commission on Building and Fire Codes (CCBFC) Standing Committee on HVAC and Plumbing; Construction Specifications Institute (CSI); International Association of Plumbing and Mechanical Officials (IAPMO) Mr. Howard holds a degree in Mechanical Engineering from Allegheny College.		

Young Engineers in ASHRAE (YEA)

The YEA committee is looking for some members, so please let me know if you are interested in joining. We have some joint events with the membership committee in the works, so keep your eyes open for those. There is also a joint event with New York City and Connecticut being put together. This event will be hosted in New York City.

On a larger scale, there are some great ASHRAE events coming up that YEA members should be looking to take part in.

Upcoming YEA Events:

The YEA Leadership Weekend Fall 2016 will be held in Charlotte NC from November 4-6th. I will be attending this conference. Look out for my full recap in next month's Sounder!

Through Leadership U, YEA members can apply to attend the ASHRAE Winter conference in Las Vegas and be matched with Society Officers. Through this experience they will get to participate in their events, board meetings and social events.

Registration for these events are is currently available on the ASHRAE website. These are two great to learn more about ASHRAE and build relationships with other young engineers.

As always, please keep these amazing programs in mind when looking for opportunities to grow and develop your careers.

Smart Start Program:

A 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly. The application can be found on the ASHRAE website.

Scholarship for HVAC Design Essentials Training:

The YEA Institute offers one full scholarship for attendance to the HVAC Design: Level I – Essentials training. Details are available on the ASHRAE website for those interested in applying.

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 \$2,415 which is about 13% 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
Rich Rosner
Thomas Fields
John D Nally
Donald W Kane, PE
Andrew B Dubel
Murat Bayramoglu, MS
Andrew E Manos
Matthew Vitrano
Michael Nigro
Elizabeth Jedrlinic
Liset Cordero
Frank Paradiso

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.

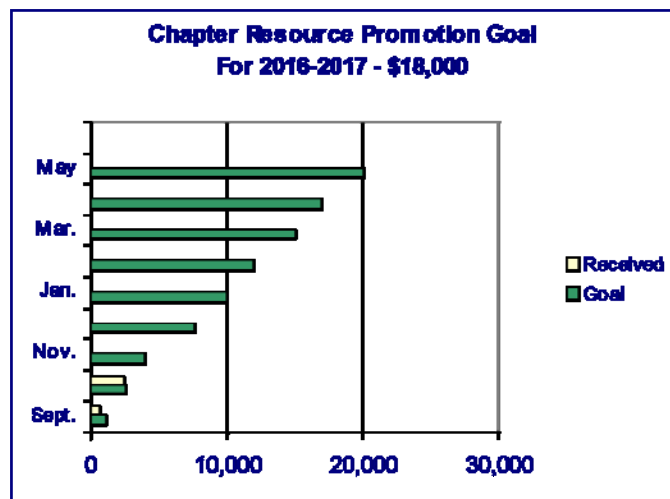
3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

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

I would like to congratulate the following members for their advancement from Associate grade to full Member grade at ASHRAE. We will be hosting our first Membership Promotion Night of the year during our November Chapter meeting, and will be offering discounted rates if you bring a guest who signs up for membership.

In addition, I am also working on several additional events, separate from chapter meetings, which will focus on expanding networking, and career development.



Anthony	Alduino
Bill	Artz
Ray	Bazini
David	Bloom
Peter	Cannuscio
Yiuping	Cheung
Kevin	Cirincione
Joseph	Deluca
Joseph	Epifane
John	Fanneron
Jason	Gajowski
Ralph	Giordano
Nicholas	Lanzillotto
Eric	List
George	Lombardo
Gary	McAvoy
Kevin	McGrath
Daniel	O'Sullivan
Walter	Prydatko
Craig	Rietmann
Steven	Schaeperkoetter
Jerry	Scherer
Ryan	Schiavone
Christopher	Schwarz
William	Scime
Zachary	Stern
Richard	Whalley

Bill Artis
Membership Promotion Chair

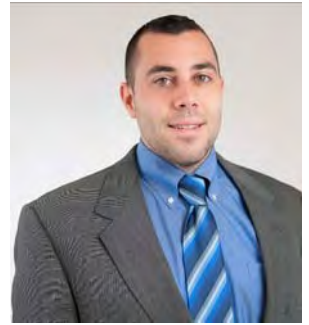
Andrew Blom
Membership Promotion Co-Chair

History

I hope everyone enjoyed last month's article on ancient radiant heating. Moving right along to THE HISTORY OF HYDRONIC SYSTEMS!

Hydronic Systems

The earliest recorded use of hot water heating may be that of a monastery in Greenland that used hot spring water to heat the buildings at the end of the 14th century. In England, Sir Hugh Platt proposed using hot water to dry out gunpowder in 1653, and Sir Martin Triewald proposed warming greenhouses with hot water.



In the late 1700s, M. Bonne-main in France constructed an actual hot water heating system using a boiler. The French idea was refined and introduced into England by the Marquis de Chabannes in 1816. Charles Hood of London wrote the first engineering handbook for hot water heating in 1837, which was subsequently published in revised editions for 50 years.

All of these early hot water systems relied on the thermosiphon principle for circulation and came to be called "gravity" systems. Some attempts were made to accelerate the circulation with crude pumps, but the idea of using a circulator did not see real use until the beginning of the 20th century.

Early hot water systems used very large pipes because it was thought this was necessary to ensure adequate circulation and heat retention. Angier Perkins recognized the drawbacks of these bulky systems. He designed a high-pressure hot water system using small-diameter, thick-walled wrought iron pipe that he patented in 1831. His system heated the water in pipe coils placed in a furnace, then circulated hot water to coils of pipe or baseboard heaters in the rooms to be heated.

Perkins relied on very high temperatures and pressures to force the water to circulate through 1-in. pipes. The pipes were connected with screw joints to withstand the high pressures. Perkins' systems were designed to operate at a 400 deg temperature and about 200-psi pressure. They frequently ran hotter than that — as much as 550 deg and 1,100 psi. After a few fires and explosions, Perkins modified his system by installing a temperature-limiting device, operating the system at a lower pressure and temperature. The Perkins' system was very popular in England until the 1850s but then died out. The idea of high-temperature hot water systems languished until they were revived in the 1920s.

In the U.S., Robert Briggs began to design and install hot water heating systems after 1840.

The aforementioned Joseph Nason and James Walworth introduced the Perkins' high-pressure hot water heating system into the U.S. in 1842; however, it was little used. Use of hot water systems seems to have been limited until the 1880s, when they suddenly became very popular.

Steam heating for residences, already crippled by competition from furnace manufacturers, rapidly declined, and hot water became the dominant system for homes, especially in the eastern United States.

Michael Nigro
History Chair

Grassroots Government Activities Committee (GGAC)

Thank you to everyone who came to the October chapter meeting, it was well attended!

I want to remind everyone of the new NYS Energy Code update that was effective October 3rd, 2016. There was no transition period for this and we should all be aware of this. The ICC codes that NYS has adopted can be viewed for free through the website below.

Here is a quick paragraph right from the DOS website:

NYS Energy Code Update

On March 9, 2016, the State Fire Prevention and Building Code Council adopted a rule updating the State Energy Conservation Construction Code (Energy Code). The Notice of Adoption of the March 9 rule was published in the April 6, 2016 edition of the State Register. On August 25, 2016, the Code Council adopted a rule amending the March 9 rule. The Amended Notice of Adoption of the amended rule updating the Energy Code will be published in the September 21, 2016 edition of the State Register. The amended rule updating the Energy Code update incorporates the following documents by reference:

- 2015 International Energy Conservation Code
- 2013 ASHRAE 90.1
- 2016 Supplement to the New York State Energy Conservation Construction Code (Revised August 2016)

Please visit <http://www.dos.ny.gov/dcea/noticadopt.html> for more information on the new energy code.

If anyone would like to stay updated on government affairs from all over the world please navigate to the ASHRAE webpage: <https://www.ashrae.org/government-affairs>

Matthew J. Vitrano

Grassroots Government Activities Chair



Student Activities

Student Activities had another strong month adding two more student members. Both students are from NY College of Technology.

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 - RUN AROUND ENERGY RECOVERY SYTEMS (RAER)

We had another great night with Rudolf Zaengerle, Ph.D., making presentation about RAER "High Efficiency Run around Energy Recovery Systems." It's been an informative presentation, and a reminder of core heat transfer basics. During the Mr Zaengerle's presentation our ASHRAE-LI people had complete attention. We had 40 attendees to October meeting in Westbury Manor, relatively higher rate from our first meeting this season. Hopefully we will have such fine presentations oncoming.



Mr. Zaengerle, describes RAER components as coils in supply and return air handlers, a pump and interconnecting piping. Exhaust air heat is being picked up (Temp drops from 70°F to 35°F), and dumped in the supply air duct (Temp increase from 30°F to 65°F via 67°F to 33°F closed loop median fluid). Obviously, these numbers mean very high heat transfer efficiency ratio. Very high efficient fin tubed heat exchangers are proposed for these systems. In New York climate zone, summer operation consists of pre-cooling, reheat, and /or evaporative exhaust cooling. In winter operation, heat added to plate heat exchanger.

In New York, temp profile is consist of avg heating 4327 hours and 3656 cooling hours. With RAER systems, Mr. Zaengerle proposes expanding summer operations when RH below %30, up to 2063 hours a year.

In Denver Co, with various RAER systems a research lab building annual consumption simulated. Annual electric consumption reduced from 13,424,627 kWh up to 3,339,323 kWh, which is 75% reduction. These compelling numbers are derived from energy simulation, but are subject to M&V studies. Mr. Zaengerle propos-

es various control parameters including air volumes in all air handlers, outside, exhaust air temperatures, supply air set points, and heat/cold addition options.

Murat Bayramoglu
CTTC Chair



Refrigeration

ASHRAE Commends Montreal Protocol Amendment To Phase Down HFCs

Oct 19, 2016

Contact: Jodi ScottPublic Relations

678-539-1140

jscott@ashrae.org



ATLANTA – ASHRAE commends the governments involved in the adoption of the HFC amendment to the Montreal Protocol, which will result in a global phase down of production and consumption of hydrofluorocarbons (HFCs). The agreement was signed earlier this week.

The move comes as ASHRAE and leading U.S. government agencies, built environment associations and companies launch a multi-million dollar research program that will establish a more robust fact base about the properties and the use of flammable refrigerants.

The research is part of a \$5.8 million program funded by ASHRAE, the Air-Conditioning, Heating, and Refrigeration Institute (AHRI), the U.S. Department of Energy (DOE), the Association of Home Appliance Manufacturers (AHAM), the California Air Resources Board (CARB), and Johnson Controls. This program is part of an ongoing global effort to phase down the use of high global warming potential (GWP) refrigerants and identify appropriate climate-friendly alternatives.

“Flammable refrigerants hold great promise for reducing the use of HFCs in refrigerants and thereby lowering the environmental impact of air-conditioning and refrigeration systems,” ASHRAE President Tim Wentz, said. “ASHRAE applauds the Kigali Amendment and is pleased to be a partner in cutting edge research effort to better understand how to safely deploy flammable refrigerants.”

The agreement calls for reduction of HFCs equivalent to 80b metric tons of carbon dioxide through 2047 and will thereby avoid almost a half degree C of global warming. Several ASHRAE members were among those attending the Protocol meetings. Among them were ASHRAE Presidential Member Jim Wolf and ASHRAE Director-at-Large Bill McQuade.

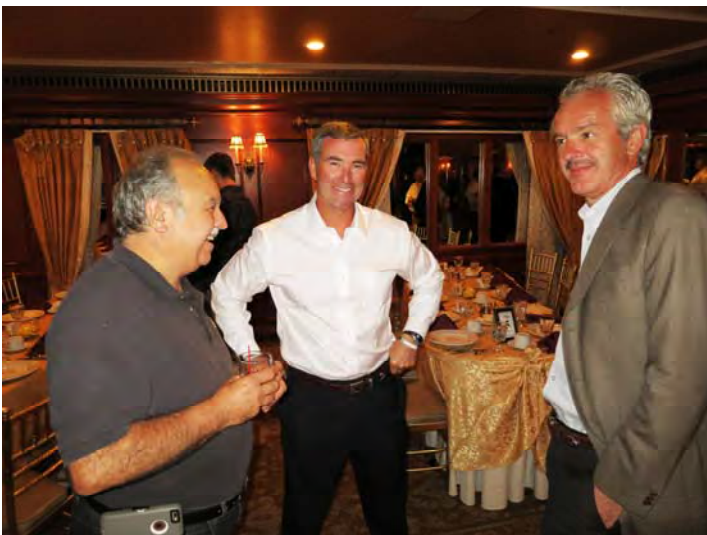
“The update of product safety standards and building codes to include A2L refrigerants is essential to the success of this agreement,” McQuade said. “The interest in our A2L research program by the parties was very high. In fact, several indicated to me interest in becoming a partner and funding additional research in the future.”

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 56,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

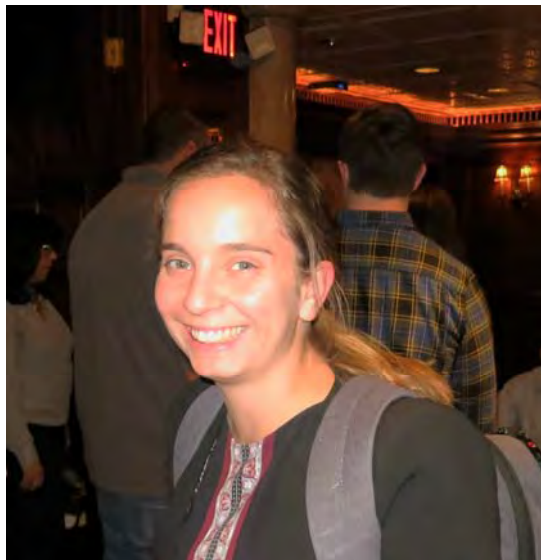
Bill Artis
Refrigeration Chair

Andrew Blom
Refrigeration Co-Chair

October Chapter Meeting Photos



October Chapter Meeting Photos



ASHRAE HVAC Design Training

City	Level I	Level II	
<u>Phoenix</u>	<u>October 17-19, 2016</u>	<u>October 20-21, 2016</u>	Register
<u>Dubai</u>	<u>November 6-8, 2016</u>	<u>November 9-10, 2016</u>	Register
<u>Atlanta</u>	<u>December 5-7, 2016</u>	<u>December 8-9, 2016</u>	Register
<u>Orlando</u>	<u>January 9-11, 2017</u>	<u>January 12-13, 2017</u>	Register
<u>Doha, Qatar</u>	<u>February 28-March 2, 2017</u>		Register
<u>Hartford, CT</u>	<u>May 22-24, 2017</u>	<u>May 25-26, 2017</u>	Register

List of ASHRAE Individual Courses

Here are list of some individual courses listed in ASHRAE website <http://elearning.ashrae.org/individual-courses.html?p=3>

Air-and-Water Systems (I-P), 2 PDHs (AIA, GBCI)

This course covers the applications, advantages, and disadvantages of air-and-water systems, as well as main component arrangement for maximum efficiency. 2.0 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

Air-Conditioning System Components-Pumps, Valves, Piping and Ductwork (I-P), 1.5 PDHs (GBCI)

This course covers the air-conditioning system distribution components and includes a case study. 1.5 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

All-Water Systems (I-P), 3 PDHs (AIA, GBCI)

This course presents the three major categories all-water systems, based upon piping arrangements. 3.0 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

Basics of Electricity (I-P), 4.5 PDHs (AIA, GBCI)

This course provides the electrical knowledge needed to understand controls and the use of electrical circuit drawings. 4.5 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

Building Electrical Power Components, 1.75 PDHs (AIA, GBCI)

This course identifies equipment, components, devices, controls, and materials in typical building electrical power systems. 1.75 PDHs. AIA and GBCI approved. (I-P).

Non-Member Price: \$50.00

Member Price: \$42.00

List of ASHRAE Individual Courses (Cont'd. from Page 20)

Building Information Modeling (Dual), 2.0 PDHs (AIA, GBCI)

Shows BIM's potential to improve the flow of data during planning, construction and operations, as well as improve a building's lifetime sustainability. 2.0 PDHs. (Dual)

Non-Member Price: \$50.00

Member Price: \$42.00

Central Plants (I-P), 2.0 PDHs (AIA, GBCI)

This course teaches the general operation and layout of steam systems and hot water, chilled water and condenser water systems. 2.0 PDHs

Non-Member Price: \$50.00

Member Price: \$42.00

Control Diagrams and Sequences (I-P), 3.5 PDHs (AIA, GBCI)

This course explains the use of written specifications, schedules, and drawings to clearly identify what is to be installed, how it is to be installed, and how it is expected to operate. 3.5 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

Control Valves and Dampers (I-P), 6.5 PDHs (AIA, GBCI)

This course teaches the various types of valves and dampers, and their selection, installation and operation. 6.5 PDHs. AIA, GBCI approved. (I-P)

Non-Member Price: \$50.00

Member Price: \$42.00

Controls (I-P), 2.5 PDHs (AIA, GBCI)

This course covers the types of controls and control loops, DDC point types and protocol to ensure communication between DDC systems. AIA and GBCI. 2.5 PDHs. (I-P).

Non-Member Price: \$50.00

Member Price: \$42.00

List of ASHRAE Individual Courses (Cont'd. from Page 21)

BEAP - Building Energy Assessment Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in building energy assessment. The BEAP certification, an ANSI accredited certification program, validates competency to do the following:

1. *Audit, assess and analyze residential, commercial and industrial building energy use and*
2. *Develop recommendations thereof.*



BCxP – Building Commissioning Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in building commissioning. The BCxP certification validates competency to do the following:

Lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.

List of ASHRAE Individual Courses (Cont'd. from Page 22)

HBDP - High-Performance Building Design Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in high-performance building design. The HBDP certification, an ANSI accredited certification program, validates competency to do the following:

Design and integrate sustainable HVAC&R systems into high performing buildings.



OPMP - Operations & Performance Management Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in operations and performance management. The OPMP certification validates competency to do the following:

Manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.

List of ASHRAE Individual Courses (Cont'd. from Page 23)

BEMP - Building Energy Modeling Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in building energy modeling. The BEMP certification, an ANSI accredited certification program, validates competency to do the following:

1. *Model new and existing building and systems with the full range of physics,*
2. *Evaluate, select, use, calibrate and interpret the results of energy modeling software where applied to building and systems energy performance and economics.*



HFDP - Healthcare Facility Design Professional Certification



ASHRAE has certified more than 2,400 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in healthcare facility design. The HFDP certification validates competency to do the following:

Incorporate standards, guidelines and regulatory codes as well as unique healthcare facility requirements and design principles in HVAC system design.

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.](#)

Join ASHRAE on Social Media!



Shaping Tomorrow's
Built Environment Today

Join ASHRAE on social media!

See the latest in Society news, chapter activity, and industry highlights. Search #MyASHRAE on Twitter and Facebook to see member photos from around the world.



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Follow us on [Twitter](#)



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Join the discussion on [ASHRAExCHANGESM](#)

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

\$\$\$ 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

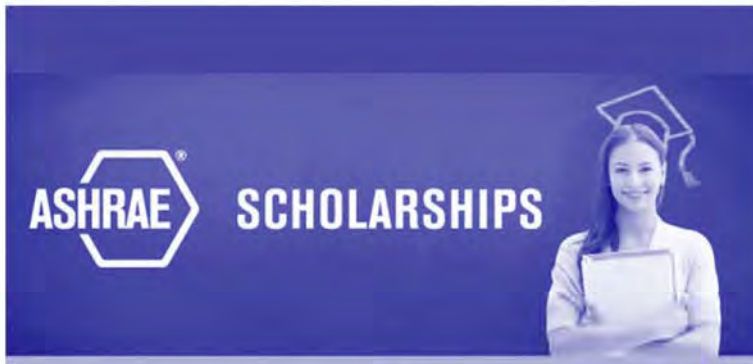
Building Operations

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

ASHRAE Winter Conference 2017 - January 28 thru February 1, 2017

**2017
Winter
Conference**
Jan. 28 – Feb. 1
Las Vegas, NV



**AHR
Expo**
Jan. 30 – Feb. 1
Las Vegas, NV



ASHRAE Conference

The world's largest gathering of HVAC&R professionals is taking place this January in Las Vegas. The ASHRAE Winter Conference - Caesar's Palace, January 28 – February 1. The AHR Expo - Las Vegas Convention Center, January 30 – February 1. ASHRAE's Winter Conference line-up includes 8 Conference Tracks and Keynote Speaker Adam Steltzner, Chief Engineer EDL, NASA Mars Rover Curiosity & Author. Easily request employer support with templates from the new [Conference Justification Toolkit](#). **Register early for the best rates.**

[Registration Information](#)



[Registration Form \(PDF\) \(updated 10/11/2016\)](#)

Early Bird registration fees from Sept. 1-Oct. 28

- \$530, member/\$740, non-member
- \$505, first-time member attendee/\$715, first-time non-member attendee
- \$135, Life Member

Advance registration fees from Oct. 29-Dec. 22

- \$555, member/\$765, non-member
- \$530, first-time member attendee/\$740, first-time non-member attendee
- \$145, Life Member

Full registration fees from Dec. 23-Feb. 1

- \$690, member/\$900, non-member
- \$655, first-time member attendee/\$875 first-time non-member attendee
- \$155, Life Member
- \$270 member one-day fee/\$320 non-member one-day fee

Registration fees for speakers, student branch advisors and students

- \$135, speaker
- \$25, student branch advisor
- \$25, student member/\$55, full-time student non-member

ASHRAE Winter Conference 2017 - January 28 thru February 1, 2017

Not a member of ASHRAE? Did you know that if you register to attend the Winter Conference as a "non-member" or "first time attendee non-member" you will receive complimentary ASHRAE membership for a year?

To obtain membership, an application form must be submitted when you register for the Winter Conference or within 60 days following the Conference. For assistance please contact customer service at 404-636-8400. A staff member will be present in Las Vegas at the Membership Desk during registration hours to assist you as well.

[Technical Program](#)

Sunday, Jan. 29 – Wednesday, Feb. 1

[Download Program Book \(10.10.16\)](#)

or use the [Interactive Tech Program](#) to compile sessions by technical interest area. Browse the program by day, session type, track or presenter

NEW [Personal Scheduler](#)

The Personal Scheduler allows users to create their own itinerary for the conference by selecting programs to attend, skip, or read about later. Search or browse events, create your schedule, check it for conflicts, record notes, and sync to your mobile device just before the conference.

"Today's HVAC&R profession is facing challenges unlike those from the past," Leon Shapiro, Conference chair, said. "The rapidity with which technology advances the modeling, design, equipment, systems, construction and operation of the buildings we deal with, along with the speed with which climate change is significantly altering the conditions around which we design, are creating problems for today's ASHRAE members. The Conference Technical Program addresses those problems."

The program features new tracks that address the changes in technology:

- Building Operation and Performance
- Commercial and Industrial IAQ
- Effects of Climate Change on HVAC&R **NEW**
- Energy Efficient Industrial Buildings **NEW**
- Fundamentals and Applications
- HVAC&R Systems and Equipment
- Mission Critical Design and Operation **NEW**
- Water-Energy Nexus **NEW**

[Training](#)

[ALI Training](#)

Various Dates

Learn about new technologies and earn continuing education credit when you participate in ASHRAE Learning Institute (ALI) courses offered at the 2017 ASHRAE Winter Conference and AHR Expo. The schedule of courses includes five Seminar and 15 Short Courses. New Seminars include Cogeneration from the Basics through Construction & Operation; Complying with Standard 90.1-2016; and Complying with the Requirements of Standard 62.1-2016. New Short Courses include New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs; Variable Refrigerant Flow Design and Application; Complying with Standard 90.1-2016 Appendix G; and Design of Affordable and Efficient Ground Source Heat Pump Systems.

[Learn More >>](#)

ASHRAE Winter Conference 2017 - January 28 thru February 1, 2017

Certification

Saturday, Jan. 28 - Wednesday, Feb. 1

Elevate your reputation among peers, in the workplace and among clients with an ASHRAE certification. Recognized by over 30 national, state and local government bodies – and with over 2,400 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Apply by Jan. 11 to sit for an ASHRAE Certification exam in one of these key fields: Energy Assessment | Energy Modeling | Commissioning | Healthcare Facility Design | High Performance Building Design | Building Operations.

Note: the NEW ASHRAE Building Commissioning Professional (BCxP) certification and recertification exams will be offered. Be among the first to earn this valuable credential.

[Learn More and Register >>](#)

Travel and Housing

Transportation

Discounted Airfares for ASHRAE



Delta Air Lines offer specials discounted airfares for ASHRAE. To take advantage of these discounts, click on www.delta.com/meeting, enter Meeting Event code NMNYF and then continue with online booking process.

Reservations may also be made by calling Delta Meeting reservations at 800-328- 1111 7 a.m.-7 p.m. CDT, Monday through Friday, and refer to Meeting Event code NMNYF. **\$25 service fee for booking via 1-800 phone number

Regional Transportation Commission of Southern Nevada

RTC Transit provides service from McCarran International Airport (LAS) station for a \$2 one-way fare to and from the airport. **For more information regarding airport routes and transit, visit** <http://www.rtcnv.com/transit/getting-to-mccarran-airport/>

Ground Transportation

SuperShuttle is offering 10% discounted rides to and from McCarran International Airport. To take advantage of the discount, click on www.supershuttle.com, select McCarran Airport and then enter the discount code **HGWTB**.

ASHRAE Winter Conference 2017 - January 28 thru February 1, 2017

Housing

The Headquarters Hotel is Caesars Palace, located at 3570 S Las Vegas Blvd, Las Vegas, Nevada, 89109. The ASHRAE room block has not opened yet. More information will be made available this fall. Rates are \$190 for Jan. 28 and 29, and \$180 for remaining nights. There is a \$25 resort fee not included in the room rate.

Please beware of unauthorized hotel deals. Emails from companies not affiliated with ASHRAE about housing may be a scam. If you have questions, contact meetings@ashrae.org.

Visa Letter

ASHRAE 2017 Winter Conference Invitation Request Form

To create a personalized letter of invitation, please submit the requested information in the form: [Create a Letter of Invitation](#)

Conference Attendance Justification Toolkit

Asking your Supervisor for support to attend an event takes some preparation. It's important to show that your attendance benefits not only you, but your company and co-workers as well. Click on the links below for items you can customize to fit your own needs, and will hopefully assist in your efforts to attend the 2017 Winter Conference & AHR Expo.

 [Email template to Supervisor](#)

 [Expense worksheet](#)

 [Post-Conference Review](#)

Committees (TC and Standing Committee Content)

Meeting Room Request Forms

New for the Winter Conference in Las Vegas is an electronic meeting request form for technical committees (TCs) and Standard Project Committees (SPCs). Please click the links below to request a meeting room. Requests must be submitted by **October 7**. You will receive a confirmation email once you have submitted the form. If you do not receive a confirmation email, your request may not have been received. Contact meetings@ashrae.org with any questions.

Technical Committee (TC)/Task Group (TG)/Technical Resource Group (TGR)/Multidisciplinary

Task Group (MTG) Subcommittee Request Form*:

http://web.ashrae.org/meeting_request/TC_meeting_request/

Standards Project Committee (SPC)/Guideline Project Committee (GPC) Request Form:

http://web.ashrae.org/meeting_request/SPC_meeting_request/

**All full committees of ASHRAE TCs, TGs, MTGs and TRGs listed on the final 2016 Annual Conference listing will be assigned the same time slot on the same day for the 2017 Winter Conference. Subcommittee meetings will NOT be scheduled unless requested through this link by October 7.*

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AN AD OR BUSINESS CARD LISTING IS A GREAT WAY TO GET YOUR COMPANY'S NAME IN FRONT OF THE HUNDREDS OF LI CHAPTER MEMEBERS, AND TO HELP SUPPORT THE CHAPTER'S ACTIVITIES.

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):


Business Card \$200
Triple Size \$350

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Frank D. Morgigno - President/CEO fm@atiofny.com



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