



2016-2017 Officers



William Tang
President



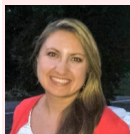
Mike Gilroy
President-Elect



Dan Carington
Vice President



Mark Leonard
Secretary



Deanna Adkison
Treasurer

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February Meeting

Wednesday February 15, 2017

Main Meeting:

Space Pressurization

Tech Session:

Proper Venting of Fuel Fired
Appliances

Joint Meeting with I2SL

Cocktail Sponsor:

Siemens

Where:

Metro Meeting Centers
101 Federal St. Boston

Meal:

Buffet

Time:

4:30 – 6:45PM	Registration/Social Hour (Sponsored Beer & Wine Reception)
5:00 - 6:00PM	Technical Session
5:30 - 6:45PM	Buffet Dinner
6:45 - 8:00PM	Main Program + Dessert & Coffee

Cost:

ASHRAE Boston Members:	\$50
Non-ASHRAE Boston Members:	\$60
I2SL Boston Members:	\$50
ASHRAE Student Members with RSVP:	Free

Please see **page 3** for more information.

Special thanks to our Sponsors:

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Please register online at www.ashraeboston.org.

RSVP by 12:00 PM on Friday, February 10th.

If you have any questions, you may contact Christopher Pietrocarlo, Attendance Chair, at ashraebostonattendance@outlook.com.

Thank You



PRESIDENT'S MESSAGE

By: William Tang

We will kick off the second half of ASHRAE Boston's calendar programs with our annual social gathering. The social will be held at The Kinsale in downtown Boston on February 9th. The event will be a great way to meet the Chapter's officers and volunteers. An invitation will be sent out shortly. Please join us!

The February meeting is our first joint meeting with International Institute for Sustainable Laboratories (I2SL) New England Chapter. I2SL is a nonprofit organization dedicated to the sustainable design, engineering, and operation of laboratories and other high-technology facilities. This will be the first of two meetings that will be held in downtown Boston. Please remember we moved this meeting to a Wednesday.

Your feedback is very important to us. We made improvements along the way thanks to all the feedback from our members.

Please feel free to contact me should you have any questions or concerns with regards to ASHRAE Boston Chapter. You can email me at co01@ashrae.net.

I look forward to seeing all of you at the next meeting!



EDITOR'S NOTE

By: Deanna Adkison

Materials for the March newsletter are due by **February 17, 2017**.

Please submit employment/want ads in .pdf, .doc or .jpg format. A company logo may also be included. Feel free to send any ideas you would like to share or include in next month's issue.

For additional information, refer to our website at www.ashraeboston.org.

For more information, please e-mail northeastaire@gmail.com

Main Section Title of presentation: Space Pressurization (1 PDH TBD)

Speaker Bio: Jim Coogan (Distinguished Lecturer)

Jim Coogan, P.E., is a Principal in product development at Siemens Building Technologies. In 35 years designing controls for mechanical systems, he has contributed to products ranging from room controllers to Internet-based interfaces. Jim has chaired several ASHRAE committees and is listed as one of ASHRAE's Distinguished Lecturers. Jim participates in programs with the International Institute for Sustainable Labs. Publications include technical papers on room pressurization and laboratory ventilation. Jim earned his SB in mechanical engineering at MIT.



Presentation Outline

- Introduction (concept, purpose, uses, scope)
- Physics: Infiltration and Containment
- Pressurization Methods
- Design Considerations
- Contaminant Control Perspective
- Summary
- Question and Discussion

Tech Section Title of presentation: Properly Venting of Fuel Fired Appliance (1 PDH)

Speaker Bio: Jason Geagan

Jason Geagan is the National Sales Manager at US Draft Co based in Fort Worth, TX. His 23 years of experience in the HVAC industry, primarily focusing on hydronic & steam boilers. As boiler technology progressed, venting technology became an essential component to designing systems. Throughout the past two decades, he's continued to work with various mechanical and natural draft companies.



Presentation Outline

- Gas Appliance Listings
- Sizing Gas Appliances
- Mechanical Draft
Q&A

Annual ASHRAE Boston Social Night

Meet the Officers and Volunteers

Kinsale

2 Center Plz, Boston, MA

Thursday, February 9th 2017

5:30-8:30 pm

Appetizers will be provided!



Registration is free, please register at <http://www.ashraeboston.org/event-2435855>

Join us at Kinsale for some food and drinks to meet other ASHRAE members in the Boston area. This will be a great opportunity to see what is going on behind the scenes in the ASHRAE Boston chapter for those who are looking to become more involved.

We hope to see you there!



MEMBERSHIP PROMOTION

By: Dan Carington

Hello Members, Congrats to the New England Patriots, they are heading back to the Super Bowl for the seventh time! Just a quick update with our membership count as of January 27, we currently are 1049 members strong. Our net growth goal is to total 1059 by July 2017. I think it is an achievable goal but we need to retain our members Let's review our status and go online at www.ASHRAE.org, signing and confirm all of your information and see how soon your membership is about to expire. Thank you for support your local Chapter and help it to keep growing.

Please help me welcome our latest new members since December by giving them a warm welcome;

Mr Shawn M Cousineau	Mr Peter Bratton	Mrs Nicole Voudren	Mr Neil Schurko
Mr Michael Burke	Mr Rafeal Plahm	Dr Sean C O'Hern	Mr Timothy M Lawler
Miss Emily Dillon	Ms Rachel Chin	Mr Antoine L. Chamoun	Mr Timothy Canavan
Mr Paul Brockmann	Mr Carlton Allen	Mr Patrick James Manning	

Please welcome Ms. Noelle Sagan, she just transferred from Atlanta to the Boston Chapter of ASHRAE.

Welcome, we are so looking forward to seeing you at our next Boston ASHRAE event. Any comments or questions, please feel free to contact me at dcarington@brplusa.com

Presidential Award of Excellence Boston Chapter - 2016-2017

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Grassroots Government Affairs Points	Chapter PAOE Point Totals
1049	745	660	800	540	825	125	50	3745

Employment Ads

ASHRAE Boston Chapter – Employment Ads

The NorthEastAire is published monthly, September through June. It is posted on the Chapter website at www.ashraeboston.org. A link is sent each month to all members of the Chapter, currently over 1000.

Newsletter Rate: \$400 for 1/2 page, \$800 for full page

Website Rate: \$300 per calendar month

Format: Word format, company logos in .jpg or .gif

Deadline for March Newsletter: February 17, 2017

Any questions, please contact Deanna Adkison, Newsletter Editor at 617-535-8236 or northeastaire@gmail.com



HISTORICAL NEWS

By: Eric Edman



In August of 1945 it was unseasonably hot in Washington, D.C. Germany had already accepted unconditional surrender earlier in May of 1945, and the Allies were poised to invade Japan. This would end one of the most brutal wars in world history.

Little did you know, that the Carrier Corporation had installed this new thing called air conditioning in the US Capitol in 1932, and finally for the President in the west wing of the White house in early 1945.

This seemingly simple little creature comfort allowed the government's war effort to continue through the summer months, and allowed President Truman to meet with his war cabinet regardless of the outside temperature, and make the biggest decision..

To drop the atomic bomb, or not.

I think the controversy for that big event still continues today.

However, the question of air conditioning, or not to air condition- is not a

topic of controversy any longer as it is, and has become an automatic design feature for all buildings today.

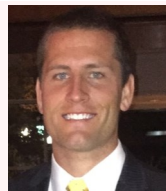
Thank you, Mr. Carrier.

How little did any of us know how our world changed with the introduction of HVAC, and the impact it had around us, in our workplaces, in our government, and in a world conflict, without us noticing it.

Think about your role in this industry.

Thank you, and as always, the historical committee looks forward to seeing you at all future meetings.

Eric



Webmaster's Notes

By: Kevin Doty

On all future event registrations, we will include the option to select "yes" or "no" for PDH credit. This will eliminate having to pass around a sign-in sheet during the presentations.

We are considering using the website emailing system to send out YEA event invites (instead of Evite).

Please make sure to add admin@ashraeboston.org to your "safe sender" list to prevent emails from going to your spam folder.

Please send comments and suggestions to coo1web@ashrae.net



2016 Versions Of ASHRAE Refrigerant Standards Published

Jan 4, 2017

Contact: Jodi Scott

Public Relations

678-539-1140

jscott@ashrae.org

ATLANTA – The 2016 editions of ASHRAE’s major refrigerants-related standards have been published as a package with 30 new refrigerants and refrigerant blends added.

ANSI/ASHRAE 15, *Safety Standard for Refrigeration Systems*, and its sister standard, ANSI/ASHRAE 34, *Designation and Safety Classification of Refrigerants*, constitute a complete set of requirements for the safe design, construction and application of refrigeration systems used in a wide variety of residential, commercial and industrial applications.

For both of the standards, the updates come from a continuing stream of changes made based on new science and research, experience, and proposals from designers, manufacturers and users.

The 2016 edition of Standard 15 incorporates addenda *a, b, c, e* and *g* to Standard 15-2013, which comprise the following changes:

- Incorporated changes to ensure improvement in the safe design, construction, installation and operation of refrigeration systems
- Updated requirements for safety relief systems, including revisions to relief vent pipe discharge locations and design provisions for headered relief vent systems
- Updated design pressure requirements applicable to systems using carbon dioxide
- Modified overpressure protection for heat exchangers and pressure limiting devices for positive displacement compressors
- The 2016 edition of Standard 34 incorporates 35 addenda to the 2013 edition. Among the key changes to the 2016 edition are the following:
 - Added three new refrigerants and 27 new refrigerant blends
 - Changed the source of the WEEL (Workplace Environmental Exposure Levels) values from AIHA (American Industrial Hygiene Association) to TERA OARS-WEEL (Toxicology Excellence for Risk Assessment/Occupational Alliance for Risk Science)
 - Changed requirements for the refrigerant application process
 - Changed the requirement for submission of standard test result data to validate the method used to determine burning velocity
 - Changed units required for refrigerant designation to require the submission of dual units
 - Revised R-744 toxicity data for the RCL, LC 50, cardiac sensitization NOEL, anesthesia NOEL, ATEL, RCL and ATEL source

The cost of ASHRAE Standards 15 and 34, which are packaged together, is \$95 for ASHRAE members (\$112, non-members). To order, visit www.ashrae.org/bookstore or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada), 404-636-8400 (worldwide) or fax 678-539-2129.

RDK ENGINEERS

Proud to be a sponsor of the ASHRAE Boston Chapter

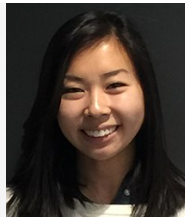
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STUDENT ACTIVITIES

By: Yuka Narisako

Greetings! I hope that our Student Members who attended the Winter Conference in Las Vegas had a great time, and used it as great learning experience! I'd love to hear from those student members at our next February meeting about their experiences!

As spring semester launches for our Student Members, it's time to start thinking about summer internships and employment after graduation, if they have not done so already. ASHRAE's employment page posts employment positions available, both full time and internships, and I highly encourage our Student Members to check it out at <http://jobs.ashrae.org/>. I encourage our Student Members to use our monthly meetings as networking opportunities, not just to seek future employers, but to speak with a variety of individuals from all different facets of the HVAC&R industry to get a better idea of what they hope to do post-graduation.

Please feel free to reach out to me at coo1sa@ashrae.net with any questions you might have.



RESEARCH PROMOTION

By: Stacie Suh

Dear ASHRAE Members,

As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research last year. It's because of your support that we were able to fund more than \$14 Million dollars' worth of research. More than 80 research projects worldwide received support from ASHRAE because of your investment. We've begun the 2016-2017 Campaign and I hope we can once again count on your support of ASHRAE Research this year. The Boston Chapter goal for 2016-2017 is \$25,001, Region I goal \$188,000 and society goal is \$2.6 million. We have raised \$11,559.00 so far.

Thank you to following Donors:



Dr Benjamin S Weil
 Mr Robert J Persechini
 Mr Robert J Barstow, PE
 Mr Warren E Hudson
 Kirschner Associates Inc
 Ms Stacie Suh
 Mr William K Tang
 Ms Deanna Jean Adkison
 Mr Michael P Gilroy
 Mr Mark Leonard
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 Mr William J Garvey
 Mr Brian E Austin
 Boston ASHRAE Chapter
 Mr Daniel P Diorio
 RDK

As always, you may also make your investment online at www.ashrae.org/donate. If you are interested in donating in other methods than online, please let me know. Your contribution will automatically go toward helping the Boston Chapter reach our RP goal for 2016-2017.

If you'd like a list of research projects being conducted in the region or about specific topics, please let me know.

Here are few links that you might find useful.

- Also you can find more information on resource promotion, please go to <https://www.ashrae.org/standards-research-technology/ashrae-rp>.
- If you are interested in important dates and deadlines for research projects please click on <https://www.ashrae.org/standards-research-technology/research>.
- These Research Project Final Reports document the results of the research project, and are approved by the sponsoring Technical Committee. ASHRAE members have free access through the [Members-Only Research Projects Final Reports site](#).
- If you are interested in submitting solicited research project, go to <https://www.ashrae.org/standards-research-technology/research>.
- If you are interested in donating to ASHRAE Resource, go to www.ashrae.org/donate

Again, Thank you for your continued support of these vital projects – it's greatly appreciated. Please contact me with any questions at stacie.suh@dxseng.com.

Stacie Suh /RP Chair 2016-2017
[Email](#)



BOG Meeting Minutes

By: Mark Leonard

February 2017

Meeting started at 4:13 PM

General Business

- December meeting minutes were approved.
- The response rate for the Chapter meeting surveys is approximately 20%
 - September meeting received overall rating of 84%
 - October main meeting received overall rating of 87%
 - October technical session received overall rating of 78%
- Chapter is looking into automatically generating invoices to members with outstanding registration fees. This is currently a manual process.
- Outstanding meeting registration fee invoices to be issued to members
- 75-80% of meeting registrants actually attend meetings.
- Chapter discussed issue regarding registrants electing to pay with cash or check at the door and then not showing. Chapter is working on a solution to eliminate incurring the food cost.
- Chapter finances were discussed.
- The application for this year's Hall of Fame inductee is complete and will be reviewed by the Board of Governors in the near future.
- There will be a social gathering to meet the ASHRAE Boston Chapter Officers, Board of Governors and Committee Chairs at Kinsale on February 9th from 5:30-8:30 PM.
- This year's brewery tour will be held at Night Shift Brewery on April 20th from 5:30-8:30 PM.
- Students applying for the ASHRAE Student Scholarship are reminded to submit their applications as soon as possible.
- The Chapter will look to modify the online meeting registration to include a PDH sign-up feature for applicable meetings in addition to the PDH sign-in sheets.

January Meeting

- An announcement was made prior to the main meeting to remind members of the discounted lift tickets at Sunday River and Sugar Loaf.
- Main meeting and technical session were each approved for 1.0 PDH.
- Notes were added to the PDH sign-in sheets to remind members to sign up only if they need the PDH and to print information legibly.

February Meeting

- Joint meeting with I2SL at Metro Meeting Center.
- ABC to host registration for I2SL with a different URL (duplicate webpage).
- Siemens to sponsor event.

Meeting adjourned at 5:07 PM

Technical Manager



We are a reseller and distributor of an innovative energy efficiency technology for North America that reduces commercial and industrial air-conditioning and refrigeration bills by 20-40%.

The internationally patented product has a very strong track record in Asia and Europe. It is now certified to sell in the US. It is an add-on retrofit to existing air conditioning and refrigeration systems. There are several methods of installation depending on the type of cooling system, its location and feature.

We are seeking a technically minded person to join our team as Technical Manager. You will provide technical support to customers/HVAC technicians installing the product, guiding them through the method of installation and assisting them with commissioning. You might need to attend some installation sites.

Desired Skills & Experience

You do not have to be a licensed HVAC technician (although that would be a plus) or an electrician but you do need to be technical, with a good understanding of HVAC/R systems. You need to understand how they operate and have a basic understanding of electrical systems and electronics.

You are first and foremost a resourceful problem solver. You love to learn. You are tenacious and intelligent. You are a strong communicator, both spoken and written. You are patient and calm, pay attention to details and mature in your approach. You are certainly not afraid of rolling up your sleeves and getting dirty once in a while. You might be a consultant/contractor who works in the HVAC/electrical industry.

Our culture is one of customer focus, can-do attitude, integrity and teamwork. This is an exciting opportunity to work with all types of customers, small businesses, large corporations, governments and utilities. Everyone needs air conditioning and refrigeration and a 20% to 40% reduction in cost and greenhouse gasses is compelling.

Contact hr@coolgreenpower.com for more details

ASHRAE BOSTON UPCOMING EVENTS

Visit <https://ashraeboston30.wildapricot.org/resources/Documents/Save%20the%20Date%205.pdf> for more information.

February Meeting

When: February 15, 2017
Where: Metro Meeting Centers

March Meeting

When: March 1, 2017
Where: TBD

Sponsor Recognition Event

When: March 23, 2017
Where: TBD

ASHRAE YEA Annual Cornhole Tournament

When: March 31, 2017
Where: Baseball Tavern Boston, MA

BOSTON AREA

AFE Boston Chapter 33
www.afechapter33.org

IFMA Boston Chapter
www.ifmaboston.org

BOMA Boston Chapter
<http://www.gbreb.com/boma/>

Sustainable Performance Institute
<http://www.sustainable-performance.org/>

AFE Chapter 74-Worcester Area-Central MA
www.afe74.org

USGBC Massachusetts Chapter
www.usgbcma.org

AEE New England Chapter
www.aeenewengland.org/

IBPSA Boston Chapter
<http://ibpsa-boston.com/>

FREE SUNDAY RIVER & SUGARLOAF DISCOUNT SKI VOUCHERS, SAVE \$10 PER TICKET

The Boston Chapter is participating in the Sunday River/Sugarloaf corporate voucher program again this year. Each voucher entitles you to purchase up to four discounted lift tickets at either ski resort by presenting an ASHRAE membership card, picture ID, and voucher. The discount is \$10 per ticket for all age groups. Contact Ed Waldman, ewaldman1@verizon.net, and the voucher will be e-mailed to you. You can make as many copies as you like.. There is no charge for the vouchers and there are no blackout dates. Complete rules below:

How To Use Vouchers

1. Bring your corporate voucher to any participating resorts ticket window.
2. Present your voucher, photo ID, and valid ASHRAE membership card to the ticket seller. In the absence of the individual member, immediate family members defined as spouse and children, must present some form of ASHRAE identification, plus a photo ID in order to receive the discount.

Each person expecting the corporate pricing must be present with the corporate voucher holder at the time of ticket purchase. The ticket seller will take the voucher in exchange for up to 4 lift tickets.

Winter Season 2016/2017 Corporate Voucher

Present your **Corporate Voucher**, photo ID (driver's license, etc.) and valid company ID (company ID, business card, pay check stub, letter on company letterhead) to the ticket seller. In the absence of the individual directly employed by or member of the participating company, immediate family members, defined as spouse and children, must present the **Corporate Voucher**, some form of corporate identification (business card, pay stub, or letter from employer), plus a photo ID. Young children do not need a photo ID to receive the corporate discount.

Corporate Program Pricing: **\$10 OFF**



**American Society of Heating,
Refrigeration & A.C.
Engineers**



Corporate Voucher is valid for 4 ticket vouchers.

Boyer Reward Points are given to the company participating in the corporate program and cannot be redeemed by the individual participants

<http://sugarloaf.com/the-mountain/daily-report>

<http://www.sundayriver.com/TheMountain/MountainReport/index.asp>



By: Joseph Dussault

YEA Members!

Below is a proposed schedule of events for YEA this year, if you have suggestions or ideas please let me know! There is also a lot going on with YEA at the national level, please feel free to ask questions about these events

- March** – Annual Cornhole Tournament
- April** – ASHRAE YEA Night

YEA Networking at Good Life Boston

Our YEA networking event at Good Life Boston was excellent! Over 25 people came out for a fun night with fellow YEA members.



We are pleased to announce that Nick Roth of New England Applied Products will be the committee chair for the Boston ASHRAE YEA chapter next year. Nick has been active at all YEA events, and he is an all-around great guy. Thank you Nick!



Cornhole Tournament

The annual ASHRAE YEA cornhole tournament is confirmed for March 31, 2017 at 6 PM at the Baseball Tavern in Boston, MA. This event is a great opportunity to meet your fellow YEA members and make new friends. We are looking forward to seeing everyone!



Getting Involved

We are always looking for YEA members to get more involved in our chapter. If you are interested in learning more about YEA, please let me know. Additionally, ASHRAE offers a leadership weekend for future ASHRAE leaders. Topics will include leadership, networking, communication, and professional development. More information can be found here:

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

I am looking forward to being a part of YEA this year. Please feel free to reach out to me anytime if you have any questions at co01yea@ashrae.net.

ASHRAE Recognizes Members for Outstanding Industry and Society Achievements

ATLANTA – Fifty-five people were recognized for their contributions to ASHRAE and the industry at the Society’s 2017 Winter Conference, Jan. 28-Feb. 1, in Las Vegas, Nev.

Fellow ASHRAE is a membership grade that recognizes members who have attained distinction and made substantial contributions in HVAC&R such as education, research, engineering design and consultation, publications and mentoring. The Society elevated 22 members to the grade of Fellow:

- Charles S. Barnaby, Life Member, BEMP, a building software developer, Moultonborough, N.H.
- Charlene Warres Bayer, Ph.D., chairman and chief science officer, Hygieia Sciences LLC., Atlanta, Ga.
- Michel Bernier, Ph.D., P.E., a professor, Department of Mechanical Engineering, Polytechnique Montreal, Quebec.
- James J. Bushnell, Life Member, owner, HVAC Consulting Services, Solana Beach, Calif.
- Thomas D. Colvin, P.E., Life Member, senior consultant, Colvin Engineering Associates Inc., Salt Lake City, Utah.
- John F. Dunlap, P.E., BEAP, BEMP, CPMP, HBDP, HFDP, president, Dunlap & Partners Engineers, Richmond, Va.
- Steven J. Emmerich, group leader, Indoor Air Quality and Ventilation Group, National Institute of Standards and Technology, Gaithersburg, Md.
- Krishnan Gowri, Ph.D., principal engineer, Generative Design Group, Autodesk, Inc., San Francisco, Calif.
- John L. Harrod, P.E., Life Member, HFDP, Edmond, Okla.
- Eliseo Huergo, Ing., Life Member, president, Termair S.A., Buenos Aires, Argentina.
- Julia Keen, Ph.D., P.E., BEAP, HBDP, professor, Kansas State University, Manhattan, Kan.
- Thomas M. Lawrence, Ph.D., P.E., coordinator, Mechanical Engineering Program, University of Georgia, Athens, Ga.
- Zoltan Magyar, Ph.D., head of the Department of Building Energetics and Building Service Engineering, Budapest University of Technology and Economics, Budapest, Hungary.
- David R. Olson, P.E., vice president, PCD Engineering Services Inc., Longmont, Colo.
- Richard L. Pavlak, P.E. president, Heapy Engineering, Dayton, Ohio.
- Michael Rosenberg, senior research scientist, Pacific Northwest National Laboratory, Richland, Wash.

- Timothy A. Shedd, Ph.D., CEO and CTO, Ebullient Inc., Madison, Wis.
- Carey J. Simonson, Ph.D., P.E., professor, Department of Mechanical Engineering, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.
- Robert L. Towell, P.E., commissioning program manager and vice president, CxE Group LLC., Edwardsville, Ill.
- Phillip M. Trafton, Life Member, principal, Donald F. Dickerson Associates, Tarzana, Calif.
- R. Vijayakumar, Ph.D., consultant in chief/founder, Aerfil LLC., Liverpool, N.Y.

Fu-Jen Wang, Ph.D., P.E., professor, Department of Refrigeration, Air Conditioning and Energy Engineering, National Chin-Yi University of Technology, Taichung City, Taiwan.

The ASHRAE Technology Awards recognize outstanding achievements by ASHRAE members who have successfully applied innovative building designs. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected from entries earning regional awards. First place recipients are:

- Kitaro Mizuide, Ph.D., P.Eng., general manager of mechanical and electrical engineering division, NIKKEN SEKKEI Ltd., Osaka, Japan, receives first place in the new commercial buildings category for the YKK80 Building, Tokyo. The building is owned by YKK Real Estate Co. Ltd.
- Adam C. S. Wheeler, P.E., principal, Sherrill Engineering Inc., San Francisco, Calif., receives first place in the existing building commissioning, other institutional buildings category for the University of California, San Francisco, Parnassus Services Seismic Replacement Building MBCx. The building is owned by the University of California, San Francisco.
- Bradford Crowley, P.E., associate principal, Ballinger, Philadelphia, Pa., receives first place in the new educational facility category for the Johns Hopkins University Undergraduate Teaching Laboratories, Baltimore, Md. The building is owned by Johns Hopkins University.
- Julien Allard, Eng., mechanical engineer, project manager and shareholder, Bouthillette Parizeau, Montreal, Quebec, receives first place in the new industry facilities or processes category for the Construction du Centre de transport Stinson, Montreal. The building is owned by the Societe de transport de Montreal (STM).

[Continued on Next Page —](#)

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- Kurt Monteiro, P.Eng., HFDP, HBDP, Smith + Andersen, Toronto, Ontario, receives first place in the new health care facilities category for Humber River Hospital, Toronto. The building is owned by the hospital.
- Brian Rose, P.E., mechanical engineer, CMTA Inc., Cincinnati, Ohio, and Tracy Steward, mechanical engineer, CMTA Inc., Louisville, Ky., receive first place in the new commercial buildings category for the Cincinnati District 3 Police Headquarters – Net Zero Energy Building, Ohio. The building is owned by the City of Cincinnati.
- Shannon M. Allison, Integral Group, Oakland, Calif., receives first place in the existing commercial buildings category for 435 Indio Way, Sunnyvale, Calif. The building is owned by Huetting and Schromm Inc.

The 2016 Student Design Competition focused on a new 2-story municipal government building in Beijing, China.

First place in the HVAC Design Calculations category is awarded to the University of British Columbia. Team members are Alexander Brosky, Samarth Joshi, Aubrey McNeill, Silvia Odaya, Cheng Yang and Ziran Yu. Faculty advisors are Nima Atabaki, Ph.D., P.Eng., and Steven Rogak, Ph.D., P.Eng., while the industry advisor is Ali Nazari, P.Eng., BEMP, principal, Integral Group.

First place in the System Selection category is awarded to California State Polytechnic University, Pomona. Team members are Miro Zaroukian, Asped Khachatoorian, Christian Garcia, Sevan Hovsepian and Tade Mirzakhanyan. Advisors are Henry Xue, Ph.D., and Richard L. Gilbert, P.E., California Energy Designs Inc.

First place in the category of Integrated Sustainable Building Design is awarded to a team from the University of Central Florida. Team members are Logan G. Harrell, Gerald Hornik, Austin B. Christianson, Travis Kalikaparsaud and Jeremy Palavecino. The faculty advisor is Muthusamy V. Swami, Ph.D., and the technical advisor is Nathaniel B. Boyd, P.E., CPMP.

The Applied Engineering Challenge for 2015-2016 required students to plan, develop and enact solutions to sustainability issues in their local or regional areas.

For the Applied Engineering Challenge, recipients are from the University of Regina, Saskatchewan – Bradley E.R. Lulik, Eva Rennie and Brent Yeske. Their faculty advisor is Adisorn Aroonwilas, Ph.D.

The E.K. Campbell Award of Merit honors an individual for outstanding service and achievement in teaching and is presented by the Life Members Club. The recipient is Thomas H. Kuehn, Ph.D., P.E., Fellow ASHRAE, Life Member, professor emeritus, Department of Mechanical Engineering, University of Minnesota, Minneapolis.

The John F. James International Award recognizes a member who has done the most to enhance the Society's international presence. The recipient is Gerald C. Groff, Fellow ASHRAE, Life Member, retired president/CEO, Marquardt Switches Inc., Cazenovia, New York.

The Milton W. Garland Commemorative Refrigeration Award for Project Excellence recognizes a non-comfort cooling refrigeration application that highlights innovation and/or new technologies in a unique manner. The recipient is Claude Dumas, P.Eng., Life Member, project engineer and an expert in skating rink refrigeration systems, City of Montreal, Montreal, Quebec.

The Comfort Cooling Award for Project Excellence recognizes the designer and owner of a comfort cooling application that highlights innovative and/or new technologies. The recipient is Andy Pearson, Ph.D., C.Eng., Fellow ASHRAE, group manager and director, Star Refrigeration Ltd., Glasgow, United Kingdom.

The ASHRAE Pioneers of Industry Award recognizes deceased individuals who have made milestone contributions to the growth of HVAC&R. Recipients are Carl Georg Munters (1897-1989), a founder of Munters AB whose inventions were based on simple heat and mass transfer with no refrigerants or compressors; and Frederick Wittenmeier (1863-1928), a pioneer in development of carbon dioxide refrigerant systems and their application to comfort cooling for public buildings.

Honorary Members, elected by the Board of Directors are defined as notable persons of preeminent professional distinction. The recipient is Stephen T. Ayers, FAIA, architect of the Capitol, Architect of the Capitol, Washington, D.C.

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.

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- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

HVAC Design: Level II—Applications

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Fellow/Life Member
ASHRAE, LEED® AP

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2016-2017 Meeting Schedule

Date	Main Meeting/ Tech Session	Speaker	PDH Credits	Location/ Special Night
September	Lessons Learned	Steve Tafone	1.0	Embassy Suites 550 Winter St. Waltham
Wednesday September 21, 2016	N/A		N/A	Research Promotion/Membership Promotion
October	Net Zero Energy Building	Conor McGuire	1.0	CBRE Amenity Center 100 High St. Boston
Tuesday October 18, 2016	Tech Session: Coil Freeze Protection	Cooney Coil	TBD	Past Presidents & History
November	Tour of Bruins' Training Facility		-	Warriors Ice Arena 80 Guest St. Boston
Tuesday November 8, 2016	N/A	N/A	N/A	Student Activities/ Young Engineers in ASHRAE/Women in ASHRAE
December	Solar Heating - Hosted by ASPE	TBD	TBD	Lantana 43 Scanlon Dr. Randolph
Tuesday December 13, 2016	Tech Session: TBD	TBD	TBD	Joint Meeting with ASPE
January	Steam Design	Kevin Foley	TBD	Embassy Suites 550 Winter St. Waltham
Tuesday January 10, 2017	Tech Session: Montreal Protocol Refrigerant Updates	Trane	TBD	Research Promotion/Membership Promotion
February	Space Pressurization	Jim Coogan	1.0	Metro Meeting Centers 101 Federal St. Boston
Wednesday February 15, 2017	Tech Session: Proper Venting of Fuel Fired Appliances	Frank I Rounds	1.0	Joint Meeting with I2SL
March	Demand Reduction - Hosted by AEE	TBD	TBD	TBD
Wednesday March 1, 2017	Tech Session: TBD	TBD	TBD	Joint Meeting with AEE
April	Attract, Retain & Promote Women in the HVAC Industry	Ginger Scoggins	TBD	Metro Meeting Centers 101 Federal St. Boston
Tuesday April 11, 2017	Tech Session: Back to Basics - Psychometrics	Ginger Scoggins	TBD	Student Activities/Young Engineers in ASHRA/Women in ASHRAE
May	Installation of Officers		N/A	TBD
Tuesday May 9, 2017				
June	Golf Outing	Jim Liston	N/A	Halifax Country Club, Halifax, MA
Monday June 5, 2017				Research Promotion

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