

# October 2019 Newsletter



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# President's Message

## October 2019

First off, I want to give a huge thank you to everyone that came out to our panel discussion last month. We once again had a great turn out and great audience/panel interaction and discussion. These have been really informative meetings that we have been receiving good feedback on, so if any member has a topic they'd think would lend itself to a panel, please reach out to any of the officers and we can put these into motion. We want to reiterate that these meetings are for the members and we want to make sure everyone gets the most out of them!

As Fall has finally arrived, we want to continue our strong events through the end of the year. We have our semi-annual dinner meeting this November, and we are encouraging our student members to join us. If your firm has any co-op or interns, please bring them along. We will also have an opportunity to give back to the community with a Habitat build this fall. Not only will this be a great opportunity for you, but again, I'm encouraging a lot of our younger members and students to get out and get involved, so be on the lookout for this event.

Again, thanks for all the support we continue to get from you guys in our chapter. We have some great Fall/Winter event coming up, so continue to be on the lookout for reminder emails and check the website. I look forward to seeing everyone at the November meeting!



### **Parker Brunelle**

Atlanta Chapter President 2019-2020

[president@ashraeatlanta.org](mailto:president@ashraeatlanta.org)

[www.ashraeatlanta.org](http://www.ashraeatlanta.org)

# Chapter Events Calendar

## 2019

### November

Nov 4-8	ASHRAE HVAC Design Training at HQ ( <a href="#">More info</a> )
Nov 12	Chapter Dinner Meeting: High Performance Building Design ( <a href="#">Register Here</a> )
Nov 14	Webinar: ASHRAE Atlanta Government Advocacy Training ( <a href="#">RSVP</a> )
Nov 21	YEA Happy Hour at Three Taverns Brewery ( <a href="#">Register Here</a> )
Nov 23	Habitat for Humanity Build 2019 ( <a href="#">Register Here</a> )

### December

Dec 10	ASHRAE Atlanta Holiday Party at the Painted Duck
TBD	Government Outreach Day at Atlanta City Hall

## 2020

### January

Jan 14	Chapter Lunch Meeting: Building Design Management
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### February

Feb 1-5	2020 ASHRAE Winter Conference in Orlando, FL ( <a href="#">More info</a> )
Feb 11	Chapter Lunch Meeting: Presentation from Darryl Boyce, ASHRAE Society President
TBD	Government Outreach Day at Georgia State Capitol

### March

Mar 10	Chapter Lunch Meeting: New ASHRAE HQ Presentation and Tour
Mar 26	ASHRAE Atlanta Trade Show

### April

Apr 7	Women in STEM Lunch
Apr 7	Chapter Dinner Meeting: Targeting Success - Diversity in Hiring, Dr Julia Keen

Stay up-to-date with all of our upcoming events by visiting the [Chapter Events Calendar](#) on our website!

## Chapter Meetings

**New drawing:** Carpool to chapter meetings! If you carpool, walk, bike, or use public transit (solo rideshare doesn't count!) to the chapter meetings, drop your business card off at registration and enter to win a small prize.

**ASHRAE Certifications:** Put some more letters after your name! Take a look at the ASHRAE professional certifications, including the new Certified HVAC Designer (CHD). [More information here.](#)

### Atlanta Chapter Meeting Notice

**When:** November 12, 2019, 6:00 PM – 8:00 PM

**Where:** Maggiano's in Cumberland Mall (1601 Cumberland Mall SE, Atlanta, GA 30339)

**Online Registration:** <https://ashraeatlanta.wildapricot.org/event-3599167>

ASHRAE Atlanta Chapter Member: \$30

ASHRAE Society Member: \$40

AIA Members: \$30

Non-Members and Guests: \$40

Students: FREE

Note: Online registration closes 24 hours before the meeting.

**Walk-Up Registration:** \$40 regardless of membership status

### High Performance Building Design – What the Future Holds for the Direction of Our Industry

During the past two decades we have seen the growth and maturation of the green or high-performance building design concept. The U.S. Green Building Council's LEED program was one of the main pioneers in this and ASHRAE's Standard 189.1 helped evolve this concept into mandatory building codes. This session provides an overview of how building systems have evolved to meet the demands for green building design and where we are headed in the future in this arena.

Also covered are topics such as the evolution of building codes to include green or sustainability features, how a building designer can include these concepts in their designs, the impact of new technologies such as a smart grid and BIM on the design, and discussion on how this will impact the industry.



#### Speaker: Dr. Tom Lawrence

Dr. Lawrence is the Mechanical Engineering program lead with the University of Georgia, and has 35 years of professional experience. He spent the first 18 years in industry and after going back for his PhD at Purdue he has been at UGA since January 2004. He is the past chair of ASHRAE Technical Committee 2.8 and is a member of the committee that wrote and maintains ASHRAE Standard 189.1 for High Performance Green Buildings. As an ASHRAE Distinguished Lecturer, he gives seminars on green building design at venues around the world. Dr. Lawrence was named an ASHRAE Fellow in 2016 and is a Director-at-Large on the Board of Directors for ASHRAE.

Dr. Lawrence has a B.S. with Highest Distinction in Environmental Science from Purdue University (1978), a M.S. degree in Mechanical Engineering from Oregon State University (1982) and a second M.S. degree in Engineering Management from Washington University in 1989. He received a Ph.D. in Mechanical Engineering from Purdue University in the spring of 2004.

## Schedule

- 6:00 PM Happy Hour
- 6:30 PM Dinner
- 7:00 PM Presentation

## AIA Atlanta

This meeting is co-sponsored with our friends from AIA Atlanta. Please be sure to introduce yourselves and to welcome them to the meeting.

## Alternative Commuting Door Prize & 50/50 Raffle

If you carpool, walk, bike, or take public transit (no single-occupant ride-share!) to ASHRAE meetings this year, we will put your name in a drawing for a small prize.

We're excited to continue our 50/50 Raffle at this month's meeting. Cash and credit card will be accepted.

## Government Affairs Committee

The Government Affairs Committee organizes ASHRAE members to educate local, state, and national government bodies and officials in areas of interest to ASHRAE members and promotes effective cooperation between ASHRAE members and government. Learn more about advocacy resources: <https://www.ashrae.org/about/government-affairs/public-policy-resources>

### ASHRAE Atlanta Advocacy Webinar

ASHRAE's [Public Policy Priorities](#) cover five broad areas:

- Building Performance Optimization – promotion of current energy efficiency codes and standards for new construction (90.1, 189.1); energy benchmarking (100), assessing (211), and monitoring for existing buildings; and use of Building EQ
- Public Safety – promotion of standards (188) and guidelines related to Legionella risk management; licensure issues; refrigerant safety; and resiliency
- Indoor Environmental Quality – promotion of ventilation (62.1 and 62.2) and thermal comfort (55) standards and addressing airborne and waterborne hazards
- Residential focus for building performance, refrigerant safety, and IEQ
- STEM education and Workforce development – collaboration with Student Activities and increasing awareness of ASHRAE training resources and certifications

Do you have a passion for any of these priorities? Join the ASHRAE Atlanta Advocacy webinar to learn how you can effectively share Society's positions, technical knowledge, research, and standards with government officials on Thursday, November 14<sup>th</sup> at 1:30 pm. Register on the Chapter website.

### Grid-Interactive Buildings Liaison Needed

The Atlanta GAC is looking for a volunteer with experience or interest in grid-interactive buildings to be a liaison between ASHRAE and local projects. This initiative connects to Past President Shelia Hayter's theme and last spring's publication, [Building Our New Energy Future](#). Contact GAC Chair [Meghan McNulty](#) if you would like to volunteer.

### Legionella Education

Thank you to Trace Blackmore for presenting at our October technical seminar on *Legionella* and ASHRAE Standard 188. If you missed the seminar or want to learn more, check out Trace's ScalingUP! Podcast episodes on Water Management Plans ([episode 83](#)) and general Legionella background with pioneering researcher Dr. Janet E. Stout ([episode 9](#)).

The ASHRAE [website](#) has additional resources, including [PreventLD Training](#). This **free** online training developed by CDC and partners can help individuals create a water management program. PreventLD Training aligns with industry standards like ASHRAE Standard 188-2018 to effectively manage risk for Legionella bacteria.

### Anticipated Advocacy Opportunities

ASHRAE's include addressing public safety related to legionella, by advocating for the adoption of Standard 188, [proposed Standard 514](#), and Guideline 12-2000R. Georgia's Department of Public Health is anticipating the formation of a Code Task Force to review these documents and determine appropriate building code changes for improved legionella risk

This Atlanta Chapter Newsletter goes by email only to all Atlanta Chapter ASHRAE members along with all other ASHRAE members in our area and anyone else who asks. If you need a change in our email list, please notify our Chapter Secretary at [secretary@ashraeatlanta.org](mailto:secretary@ashraeatlanta.org)

management. ASHRAE Atlanta members will be notified about opportunities for public comment to support ASHRAE standards and guidelines.

Guideline 12-2000R, Managing the Risk of Legionellosis Associated with Building Water Systems, is open to public comments now through November 10, 2019. Log in to ASHRAE's [Online Standards Review](#) portal to view the current draft document and provide feedback.

## City of Atlanta CBEEO – New Deadline for Benchmarking and Energy Audit Submittals

***Do you work with commercial or multifamily buildings over 25,000 sq. ft.?***

The City of Atlanta's Commercial Buildings Energy Efficiency Ordinance (CBEEO) requires owners of commercial buildings over 25,000 sq. ft. to benchmark their energy and water consumption on an annual basis as well as have an ASHRAE Level 2 energy audit performed every 10 years. These steps identify opportunities to improve the economic and resource efficiency of a building that may otherwise be overlooked. You can view a list of properties covered by the ordinance [here](#). To find out more information visit [www.atlantabuildingefficiency.com](http://www.atlantabuildingefficiency.com).



ATLANTA  
OFFICE OF  
RESILIENCE

The 2019 benchmarking submission deadline is **November 15, 2019**. For properties that are due for an energy audit this year, the summary audit report submission deadline is **December 31, 2019**.

## ASHRAE Standard 100 in Washington State

The [Washington State Department of Commerce](#) is developing rules for a state energy performance standard based on *ASHRAE Standard 100-2018 Energy Efficiency in Existing Buildings*. A [webinar](#) will be held on October 30<sup>th</sup> from 5 pm to 6:30 pm Eastern (2 pm Pacific) will outline Standard 100 and the anticipated rulemaking process.

# Historian

## History of Green Buildings

### Historical Buildings

Green building is defined by the Office of the Federal Environmental Executive as “the practice of: 1) increasing the efficiency with which buildings and their sites use energy, water, and materials, and 2) reducing building impacts of human health and the environment, through better siting, design, construction, operation, maintenance, and removal throughout the complete life cycle.”<sup>1</sup> While the green building movement has gained momentum in the last decade, the origin can be traced back to the late nineteenth century.

According to David Gissen, curator of architecture and design and the National Building Museum in Washington DC, structures such as London’s Crystal Palace and Milan’s Galleria Vittorio Emanuele II used methods that decreased the impact of the structure on the environment. Systems such as roof ventilators and underground air-cooling chambers were used to regulate indoor air temperature.<sup>2</sup> In the early twentieth century, several skyscrapers such as the Flatiron Building and the New York Times Building in New York utilized deep-set windows and the Carson Pirie Scott department store in Chicago had retractable awnings. Both of these techniques were effective in controlling interior temperature while lessening the buildings’ impact on the environment.<sup>2</sup>



From the 1930’s through the 1960’s, the forward thinking cooling methods mentioned above gave way to some new building technologies that would change inner-city building construction dramatically. The invention of air conditioning, reflective glass, and structural steel popularized the enclosed glass and steel buildings that litter the American city today. These buildings were able to be heated and cooled with massive HVAC systems that consumed huge amounts of cheap and readily available fossil fuels<sup>2</sup>. The massive consumption of energy required to inhabit these buildings made their viability tenable and entirely dependent upon energy availability and cost.

### The Infancy

Around the time that the “glass box” style high rise had become the icon of the American city (circa 1970), a forward thinking group of architects, environmentalists, and ecologists<sup>2</sup> were inspired by the growing environmental movement and the higher fuel costs that were prevalent during the 1970s.<sup>3</sup> The genesis of these two scenarios ultimately resulted in the modern build green movement.



The first Earth Day, celebrated in April 1970, gave some credence to this new building concept, but the OPEC oil embargo of 1973 gave the burgeoning environmental movement, and subsequently the green build effort, the kick start it needed. With gas lines stretching for blocks, some Americans began to question the conventional wisdom that we should be so independently reliant upon fossil fuels for our energy.<sup>2</sup>

As a result of the oil embargo, amongst other energy concerns, the American Institute of Architects (AIA) formed a Committee on Energy that was broken into two camps. “One group looked toward passive, such as reflective roofing

<sup>1</sup> Office of the Federal Environmental Executive, “The Federal Commitment to Green Building: Experiences and Expectations,” 18 September 2003.

<sup>2</sup> Building Design and Construction, “White Paper on Sustainability”, page 4, November 2006

<sup>3</sup> [http://www.nyc.gov/html/nycwasteless/html/in\\_business/green\\_building.shtml](http://www.nyc.gov/html/nycwasteless/html/in_business/green_building.shtml)



materials and environmentally beneficial siting of buildings, to achieve energy savings, while the other concentrated more on technological solutions, such as the use of triple-glazed windows.”<sup>2</sup>

As energy concerns subsided, momentum for green building and the environment, in general, slowed down, but a dedicated core-group of architects continued to push their green building concept forward. A couple of notable buildings constructed during the seventies which utilized concepts of green design are: The Willis Faber and Dumas Headquarters in England, which utilized a grass roof, day-lighted atrium, and mirrored windows; the Gregory Bateson Building in California, which used energy-sensitive photovoltaic (solar cells)<sup>4</sup>, under-floor rock-store cooling systems, and area climate-control devices.<sup>2</sup>



Through the late seventies, throughout the eighties, and into the early nineties, much research was commissioned on energy efficient processes. This research resulted in more effective solar panels, prefabricated efficient wall systems, water-reclamations systems, modular construction units, and direct usage of light through windows in order to decrease day-time energy consumption.<sup>2</sup>

### Where Are We Now?

The concepts of building green and, on a larger scale, sustainability are ideas that we hear all of the time. These two concepts, however, are rarely properly understood. “Sustainability is a systemic concept, relating to the continuity of economic, social, institutional and environmental aspects of human society, as well as the non-human environment. It is intended to be a means of configuring civilization and human activity so that society, its members and its economies are able to meet their needs and express their greatest potential in the present, while preserving biodiversity and natural ecosystems, and planning and acting for the ability to maintain these ideals for a very long time. Sustainability affects every level of organization, from the local neighborhood to the entire planet”<sup>5</sup>. In short, the concept of sustainability refers to thinking holistically about how everything you do affects everything around you. It is an attempt to minimize each person’s impact on the world.

Today, green building is one of the fastest growing building and design concepts. Every month new magazines are popping up that report on this growing trend. Architects, designers, and homeowners are becoming infatuated with the cost saving possibilities, energy saving emphasis, modern look, and the symbiotic relationship with nature that green buildings possess.

<sup>4</sup> “Photovoltaic Fundamentals”, [www.fsec.ucf.edu/pvt/pvbasics](http://www.fsec.ucf.edu/pvt/pvbasics)

<sup>5</sup> <http://en.wikipedia.org/wiki/Sustainability>

## YEA

Are you under 35? Welcome to Young Engineers of ASHRAE! We have multiple activities throughout the year, plus access to training and leadership programs!

### YEA Happy Hour at Three Taverns Brewery

Join YEA at **Three Taverns Brewery** on **Thursday, November 21<sup>st</sup> from 5:00-8:30 pm** for a happy hour and beer sampling. Membership Promotion will be giving away ASHRAE "Swag" to YEA members who bring a Non-ASHRAE engineering friend or colleague to this event.



We will be raffling off brewery swag as well. Raffle tickets are \$2 each or 3 tickets for \$5 so bring some cash with you and join in the fun!

The cost for admission if you want beer tastings is \$5 if you register early through ASHRAE, or pay for the amount you want at the door. If you aren't looking for any tastings, you can always come and hang out with fellow ASHRAE members and friends at a cool brewery for the always awesome price of \$FREE.

Register at <https://ashraeatlanta.wildapricot.org/event-3601473>

### Habitat for Humanity Build 2019

Join your fellow Atlanta ASHRAE members on November 23rd by volunteering to build with Habitat for Humanity. The project will run from 7:30 AM to 3:30 PM. Please be available to commit the full 8-hours but we have ended early in previous years.



**Date: Saturday, November 23, 2019**

**Location: TBD**

**Time: 7:30 AM - 3:30 PM**

**Registration is limited to 10 volunteers on a first come, first serve basis.** If max registration is reached, we will enable a wait list and will be in touch if any spots open up.

Due to this type of group registration, we will not know the exact build site location until 1-2 days prior to the scheduled date. Most builds occur within the City of Atlanta and Fulton County. If you have questions or will need to carpool, please contact Felipe Alvarez (<mailto:felipea@enervex.com>).

This Atlanta Chapter Newsletter goes by email only to all Atlanta Chapter ASHRAE members along with all other ASHRAE members in our area and anyone else who asks. If you need a change in our email list, please notify our Chapter Secretary at [secretary@ashraeatlanta.org](mailto:secretary@ashraeatlanta.org)

# Membership Promotion

## November Meeting includes a focus on Membership Promotion!

Once again, we are asking all members to please invite and bring with you an engineering colleague who is NOT currently an ASHRAE Member to the November meeting. At beginning of the meeting we'll ask our members with guests to introduce them and both of you will be receiving very nice ASHRAE polo shirts! Please help us grow our chapter with new members!

## Membership Grade Advancement

Most of us began our ASHRAE membership at the "Associate" level. Nothing wrong with that, but did you know this is not the highest membership level. ASHRAE requires its members to attain an equivalent of twelve (12) society-approved years of experience to attain the (capital M) "Member" level.

Spoiler! ASHRAE uses "multipliers" to calculate years of approved experience.

For example:

- 1.5 years of credit for each year of completed education for graduates of approved technical curricula.
- 3 years of credit for a professional registration or license issued in engineering or related field.

Therefore, a person who graduated from an accredited engineering college / university, has been working in an engineering field for 3 years and has their P.E. has attained 12 years of society experience and should be honored with the grade advancement from Associate to Member status.

Just in case you were wondering, is there a difference in the annual dues? There is NO difference in the annual society dues whether you are an Associate or Member level.

### So then, why worry with grade advancement to the "Member" level?

1. **Prestige:** Who wants to be an "Associate" when they can be a "Member".
2. **Chapter recognition through newsletter:** Gives recognition to advancing member, allows MP chair to educate chapter members on the benefits of advancement.
3. **Chapter recognition at meeting:** Same as 2 (above). Especially at designated MP Night chapter meetings.
4. **To serve on a technical committee:** Technical Committees are responsible for the vitally important ASHRAE Handbooks. Allows MP chair to publicly recognize chapter members who serve on TCs. (Chapters could schedule a TC appreciation night). This also allows MP chair to educate members on different facets of ASHRAE (Grassroots, TCs). And it encourages "TC" members to attend chapter meetings and "cross-pollinate".
5. **To serve in a chapter officer role:** We believe that ASHRAE membership is vital to our individual careers and the leadership training available for very modest priced annual dues. To achieve the additional training (beyond committee chairs) available at the officer level, full grade membership is prerequisite.
6. **To serve in a regional role:** See #5 above. Additional leadership training is available at regional and Society levels.

- 7. **To qualify for ASHRAE Fellow and other Society awards:** The term “Fellow” is widely recognized in many technical, educational, and research societies and honors exceptional achievement and service. This and other society awards have Member Grade as a prerequisite.
- 8. **You can add Member ASHRAE to your email tag:** This simple addition to your email signature increases awareness of ASHRAE, provides free advertising and adds prestige to the member and their company.
- 9. **Allows your chapter to shine among other chapters:** Regional recognition and contests offer chapter recognition and “bragging rights.” Chapter presidents and regional officers should encourage this recognition.
- 10. **Society recognition in Insights:** All 57,000+ members receive a copy of Insights.
- 11. **Proves to your employer that you take your career seriously:** You add value to your employer through continuing education, networking, and leadership training with an impressive return on investment. You differentiate from colleagues by maintaining membership and take the further step of advancing to full Member status. (Can we send letter of appreciation to employers of advancing members?)
- 12. **Proves to your professional community that you take your career seriously:** Savvy consumers of your products and services are increasingly using the internet and ratings services to differentiate among possible professional candidates. Advertising full member status proves that you have established a long-term relationship with the most important society serving the HVACR industry.

Come up and ask us about your membership status at the November meeting. Advancing from Associate to Member is a very simple and quick process when your “Bio” is up to date and you have accumulated a couple professional accomplishments!

Please come join us at the November meeting!

Darrell Sandlin – MP Chair  
 Patrick O’Connor – MP Co-chair

## Chapter Officers

### Meet your 2019 – 2020 Chapter Officers!



Parker Brunelle – President  
[president@ashraeatlanta.org](mailto:president@ashraeatlanta.org)



Pedro Pacheco – Vice President  
[vicepresident@ashraeatlanta.org](mailto:vicepresident@ashraeatlanta.org)



Matthew Mumpower – Treasurer  
[treasurer@ashraeatlanta.org](mailto:treasurer@ashraeatlanta.org)



Reed Coggins – Secretary  
[secretary@ashraeatlanta.org](mailto:secretary@ashraeatlanta.org)

# Committee Chairs

## Welcome your 2019 – 2020 Committee Chairs and Co-Chairs!

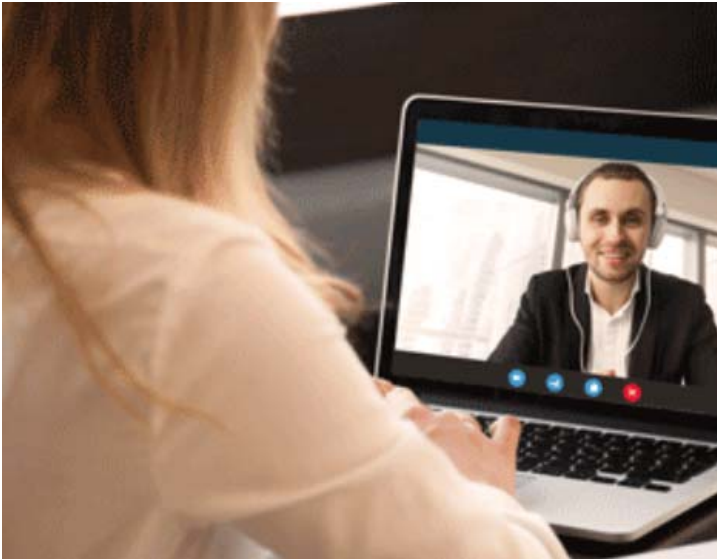
**Chapter Technology Transfer / Programs**Chair: [Jamie Kono](#)Co-Chairs: [Kristie Teoh](#) & [Robert Lontoc](#)**Membership**Chair: [Darrell Sandlin](#)Co-Chair: [Patrick O'Connor](#)**Grassroots and Government Advocacy**Chair: [Meghan McNulty](#)**Refrigeration**Chair: [Mark Dahir](#)**Sustainability**Chair: [Brendan Gardes](#)**Macon Section**Chair: [Caroline Callaway](#)**Research Promotion**Chair: [Keven McCook](#)Co-Chair: [Henry Peterson](#)**Historian**Chair: [Samir Sheth](#)**Young Engineers in ASHRAE**Chair: [Felipe Alvarez](#)**Student Activities**Chair: [Gabe Park](#)**Electronics Communications**Chair: [Pamela Moua](#)**Ways and Means**

Chair: Glenn Northrup

## Committee Volunteer

Are you interested in joining one of our committees listed above? Contact any Officer or Chair for further information.

# ASHRAE Learning Institute



## Online Instructor-Led Courses

1-Hour Short Course: **\$55** (\$44 ASHRAE Member)

3-Hour Short Course: **\$299** (\$229 ASHRAE Member)

All courses are archived for a period of time after their initial presentation

### 2019 Online Course Series:

**Laboratory Design: The Basics and Beyond** 22 Oct 2019

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**Thermal Energy Storage Systems for Air Conditioning** 24 Oct 2019

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**Designing and Operating High-Performing Healthcare HVAC Systems** 29 Oct 2019

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**Latest in High-Performance Dedicated Outdoor Air Systems (DOAS)** 31 Oct 2019

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**Design of Affordable and Efficient Ground Source Heat Pump Systems** 06 Nov 2019

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**Commissioning Process and Standard 202** 13 Nov 2019

# ASHRAE HVAC Design Training

HVAC Design Training is comprised of a series of four different training sessions: Level I, Level II, Consulting Engineering Essentials, and Improving Existing Building Operation.

**Register** early and Save! Click [here](#) for more information.

World-wide HVAC training available, see training schedule below:

City	Level I	Level II	Registration
Dubai, UAE	October 27-29, 2019 <b>SOLD OUT</b>	October 30-31, 2019	<a href="#">LEARN MORE</a>
Atlanta, GA	November 4-6, 2019 <b>SOLD OUT</b>	November 7-8, 2019	<a href="#">LEARN MORE</a>
Dublin, Ireland	November 18-20, 2019		<a href="#">LEARN MORE</a>
Lisbon, Portugal		November 21-22, 2019	<a href="#">LEARN MORE</a>
London, UK	November 25-27, 2019		<a href="#">LEARN MORE</a>
Las Vegas, NV	February 10-12, 2020	February 13-14, 2020	<a href="#">LEARN MORE</a>
Miami, FL	March 9-11, 2020	March 12-14, 2020	<a href="#">LEARN MORE</a>
Austin, TX	March 23-25, 2020	March 26-27, 2020	<a href="#">LEARN MORE</a>



# ASHRAE Technology Award

Have an outstanding or innovative project? Submit it for an ASHRAE Technology award! The flyer on the next page gives a quick pitch for Tech awards. [Learn more here](#) or contact Jamie Kono at [Jamie.kono@servidyne.com](mailto:Jamie.kono@servidyne.com) if you'd like to submit an application.

## Benefits of Winning a Technology Award



Recognized by peers as being innovative and capable of achieving a high level of competence



Recognition on ASHRAE's website



Winning projects are highlighted in the ASHRAE Journal and High Performing Buildings Magazine



Opportunity to bring additional recognition and prestige to buildings with innovative design



First place awards and the Engineering Award of Excellence are honored at the Plenary Session of the Society's Winter Meeting

# ASHRAE Resources and Publications

## Are you missing out?

Don't miss out on the latest ASHRAE publications! For more information, visit the Resources and Publications page: [www.ashrae.org/resources--publications](http://www.ashrae.org/resources--publications)

### ASHRAE JOURNAL



Most college science buildings consume a lot of energy. But, the Davis Building at the University of Findlay has a site EUI of only 64

kBtu/ft<sup>2</sup>, which is significantly lower than most similar buildings that include labs with many fume hoods. This issue also features articles about when adding more fan power can be a good thing, the future of residential construction and a side-by-side comparison of VAV vs. radiant.

[Learn More >](#)

### HPB MAGAZINE



Learn how the Federal Center South Building 1202 fosters a culture of collaboration, while the Haywood

Community College Creative Arts Building welcomes artists with open, daylit spaces that maximize passive strategies to reduce energy use. The SIERR Building at McKinstry Station demonstrates that even a nearly condemned building can be transformed into a high performing, energy-efficient office.

[Learn More >](#)

### PUBLICATIONS CATALOG



[Interactive Catalog](#)

[Downloadable Catalog \(PDF\)](#)

### ASHRAE TERMINOLOGY



Explore this new free resource, a comprehensive online glossary of more than 3700 terms related to the

built environment, with a focus on HVAC&R terms. Learn more at [www.ashrae.org/ASHRAETerms](http://www.ashrae.org/ASHRAETerms)

# How To Join ASHRAE



Visit <http://www.ashraeatlanta.org/> to start the process

Click “Membership” on the horizontal menu bar

On the pull down menu, click “Join”

Enter your email address in the box “Verify your E-mail status”

A prospective member will then be directed to enter his or her email information. As a new member, your address will not be recognized, and you will be invited to “Register Now”.

After you complete registration, you will be directed to the Individual Information page where you can finally select “Join ASHRAE”!

## Websites Reference List

### Convenient and Useful ASHRAE Links

1. RSVP and prepay for each event through the Atlanta ASHRAE <http://www.ashraeatlanta.org/>. For events where meals are served, you must at least RSVP to ensure that there will be a meal for you. We encourage you to prepay, as this will speed your way through the check-in process.
2. Pay your Chapter dues of \$40 per year directly to the chapter: <http://www.ashraeatlanta.org/Membership>. These dues are in addition to your Society dues and help fund the Chapter’s programs and outreach.
3. Donate to ASHRAE Research Promotion. We have a fundraising goal of \$48,000 this year, so please do what you can to help fund ASHRAE research. Donate here:  
<https://xp20.ashrae.org/secure/researchpromotion/rp.html>
4. Join the “ASHRAE Atlanta Chapter” group on LinkedIn at <http://www.linkedin.com/>.
5. Like the “ASHRAE Atlanta Chapter” page on FaceBook at: <https://www.facebook.com/ASHRAEAtlanta/>
6. Access the Product Directory online at the Atlanta ASHRAE website. Please note that this feature is in the process of being updated.

# Job Opportunities

## Browse Job Postings on Our Site

Did you know employers can post job opportunities on the Atlanta Chapter website for **FREE**?

As the professional society that serves as the major connection through all parts of the HVAC industry, it is important to the Atlanta ASHRAE Chapter to keep all members employed. Likewise, we are happy to assist employers in posting their job



Go to the following page on our site to browse the posted employment opportunities:

<http://ashraeatlanta.org/JobOpportunities>

# Social Networking

## Keep Up-to-date With What's Going On

Connect with the ASHRAE Atlanta Chapter on networking social media!

(Let's Connect)



[www.linkedin.com/groups/ASHRAE-Atlanta-Chapter-2186496](http://www.linkedin.com/groups/ASHRAE-Atlanta-Chapter-2186496)



[www.facebook.com/ASHRAEAtlanta](http://www.facebook.com/ASHRAEAtlanta)



[@ashraeatlanta](https://www.instagram.com/ashraeatlanta)