

THE EXCHANGER

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December 2017

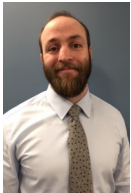


CHAPTER MEETING: December 13th, 2017

Presentation:

CHILLER PERFORMANCE TESTING AND HOLIDAY PARTY

Bull and Barrel Brew Pub, Brewster, NY



PRESIDENT'S MESSAGE

The 2017-2018 ASHRAE Bi-State year is off to a great start so far. We've already had two great dinner meetings offering 4 PDH credits covering topics including energy recovery, hydronic testing and balancing, energy efficient air movement. We were also lucky to host an ASHRAE technical committee member who gave a presentation on the work of his technical committee on mission critical facilities, data centers, technology spaces, and electronic equipment.

We also had an afternoon full of seminars and tours hosted at the Mechanical Heating Supply, Inc. training facility in the Bronx. We had presentations on condensing boiler performance optimization by New York City Chapter's President, Frank Rivera, Jr., P.E. and ASHRAE's Indoor Air Quality guidelines by our very own Vice President and President-Elect, Stephanie O'Dea. We also kicked off our YEA schedule at Bronx Brewery after the tour and seminars.

We'll wrap our 2017 up with our annual Holiday Party and Toys for Tots drive. This year it'll be hosted at Bull and Barrel in Brewster, which was a big hit last year for the end of year brewery tour. Johnson Controls has generously offered to continue their sponsorship of our Holiday Party this year again, and will bring us back to our Back to Basics theme with a Chiller Performance Testing presentation.

Our Student Activities are going wonderfully as well with a thriving student chapter at Manhattan College and a growing relationship with Putnam Northern Westchester B.O.C.E.S. Manhattan College will be hosting a Heat Transfer Challenge that Bi-State will be sponsoring where students compete to create a thermally insulated Styrofoam cup.

All of this is made possible by the dedication of our Board of Governors, Officers, and Committee Chairs as well as our Membership for continued support and interest in ASHRAE and the work that we do. I would also like to encourage anyone who has any interest in getting involved in the operation of the chapter to reach out to me or any other Board member or Committee Chair. We could always use the help, and the more membership participation, the better the chapter gets!

Brendan Smith, P.E.

UPCOMING EVENTS

DECEMBER 13TH: CHAPTER MEETING, HOLIDAY PARTY AT BULL AND BARREL

JANUARY 10TH: CHAPTER MEETING, SOLAR INCENTIVES AT CASA RINA

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- Upcoming Events
- In Case You Missed It
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UPCOMING MEETINGS

Month	Date	Tech Session	Main Presentation	PDH	Promotion
December	12/13/17	Chillers 101	Johnson Controls Christmas Party @ Bull & Barrell	1	RP
January	1/10/18	Armacell Insulation	NYPA Metering and Utilities	1	Gov Affairs
February	2/14/18	TBD	Chiller Plant Tour of One Bryant Park Facility	TBD	Refrigeration
March	3/14/18	TBD	Steam Systems 101	1	Past Presidents
April	4/11/18	TBD	Airside Equipment 101	1	TBD
May	5/9/18	TBD	Golf Outing @ The Links at Unionvale	TBD	RP
June	6/13/18	TBD	Captain Lawrence or Yonkers Brewery Tour	TBD	Membership Pro

YEA EVENTS

Month	Tentative Date	Event
November	11/15/17	Bronx Brewery Social
January	1/23/18	Go Karting at Palisades Mall or Grand Prix NY in Mt. Kisco
April	4/18/18	Paintball MSG in Walkill or Kayak Tour in Cold Spring
June	6/1/18	LI/NY/Bi-State Joint YEA Event

CHAPTER PAOE POINTS

Chapter Number	Chapter Name	Chapter Members	Member Promotion	Student Activity	Research	History	Chapter Operation	CTTC	GGAC
146	Bi-State	233	535/ 800	50/ 500	20/ 1050	200/ 300	1025/ 1200	550/ 1050	50/ 650



1 PDH Credit
Save the Date

Chapter Holiday Party
December 13, 2017



Location: Bull & Barrell Brew Pub
988 NY-22
Brewster, NY 10509

4:30 – 6:00 Arrival and Happy Hour

6:00 – 7:00 Buffet Dinner and Presentation

7:00 – 9:30 Holiday Cheer

7:30 PM – Ugly Sweater Competition

(1 PDH approved)

\$25 Members, \$30 Non-Members
Complimentary Admission for
Engineering Students
Walk-ins and General Public
Welcomed

FREE ADMISSION

With Toys for Tots toy donation

Drink Ticket with Admission

ASHRAE Bi-State Holiday Party

Join the chapter to ring in the season at our annual holiday party sponsored by Johnson Controls.

Toys for Tots Drive – Bring in a toy, or more, for Toys for Tots and receive FREE ADMISSION.

Ugly Sweater Competition – Wear your ugliest holiday sweater and enter into the competition!

Golf Outing Foursome Raffle – Raffle tickets will be on sale for a foursome at our annual golf outing in May. Raffle will be pulled at January meeting.

Main Presentation – Chiller Performance Testing

An overview of AHRI Standard 550/590 chiller performance ratings and testing. We will discuss the purpose of performance testing, the kinds of projects that benefit from it, and what the testing includes. We'll learn what to look for in a performance test report, and how to make use of it in design, installation, and commissioning to ensure the chiller is functioning as intended.

Michael E. Donoghue, P.E., LEED AP is an Account Executive at Johnson Controls Westchester County branch in Hawthorne, NY. Michael has 20 years' experience in the HVAC industry working in sales and project engineering for JCI and York. His career has focused on large commercial and custom chiller applications for critical facilities with over 40 factory chiller performance tests totaling over 100 test points under his belt

Coming Months: January 10th – Back to Basics – Solar PV 101
February 14th – Refrigeration Tour

for more information or call Brendan Smith @ 914 741-1290
RSVP to bsmith@lnstaar.com

IN CASE

you missed it



New York City's Frank Rivera, Jr. presented the critical design concerns with the proper application of condensing boiler to new and existing building systems. Frank discussed in depth topics such as return water temperature, temperature drop, flue material design concerns, system pressure, and outside air reset of system temperature. After the presentation, we toured the warehouse to see the logistics of managing the sales of several different types of mechanical products.



Our very own Stephanie O'Dea presented on ASHRAE's Indoor Air Quality standards. Stephanie presented a 2 hr seminar on all aspects of IAQ calculation, guidelines, strategies, and techniques in both commercial and residential applications. The Seminar took place in Mechanical Heating Supply's training room, which included exposed radiant floor heating, a condensing boiler and distribution system, and viewing panels to the ductwork and heating distribution system.

RESEARCH PROMOTION

We are always looking to increase our Research Promotion donations and we encourage our membership to do the same. Research Promotion is the backbone of ASHRAE; without it we would not have all of the useful information we rely on as HVAC&R industry professionals. As we approach the end of the year and enter the holiday season, it's a great time embrace the spirit of giving and donate. After all, it is tax deductible.

If you are interested in donating, please contact our Research Promotion Chair, Kieran Moran at Kieran.j.moran@jci.com or (914) 588-2141, or simply visit the ASHRAE website at www.ashrae.org.

EDITOR'S NOTE

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ABOUT ASHRAE

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today. ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

BI-STATE CHAPTER OFFICERS AND GOVERNORS 2017—2018

Position	First Name	Last Name	Email	Phone
Officers				
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Historian	John	Fusco	jfusco@kohleronan.com	(203) 778-1017
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Administrator	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864
Golf	Joseph	Russo	jrusso@kohleronan.com	(845) 558-5189

WHY BE INVOLVED IN A LOCAL CHAPTER?

- Learn about the latest technologies presented in the program sessions
- Attain continuing education credits
- Meet industry associates and discuss local concerns
- Network amongst designers, installers, vendors, educators, in your local area to help improve business for all

www.ashrae.org/chicago



2018 ASHRAE Winter Conference

Chicago, Illinois ★★☆☆ January 20–24

AHR Expo ★ McCormick Place ★ January 22–24

ASHRAE Winter Conference & AHR Expo is where passionate people come together to share knowledge, learn new things and meet new people. This conference is a great way to immerse yourself in a growing community of incredibly smart, dedicated people. The 2018 Winter Conference will be at the Palmer House in Chicago, January 20-24, and the AHR Expo is at McCormick Place, January 22-24. And yes it will be cold in Chicago in January, but the cold never bothered us anyway.



The 2018 Show will be held in Chicago, hosting more than 2,000 exhibitors and attracting crowds of 65,000 industry professionals from every state in America and 165 countries worldwide. The Show provides a unique forum for the entire HVACR industry to come together and share new products, technologies, and ideas. The AHR Expo is co-sponsored by ASHRAE and AHRI, and is held concurrently with ASHRAE's Winter Conference. Your ASHRAE Conference Badge will give you access to the AHR Expo.

Technical Program

"Engineers and designers continue to advance designs to reduce the ecological impact of our built environment on the world around us. It has practically become second nature." Michael Collarin, chair of the 2018 ASHRAE Winter Conference, said. "However, and seemingly more so in recent years, the industry has needed to take steps to mitigate the impact of the world around us on our built environment. This is especially the case in our transportation, government and mission critical arenas, where the loss of critical infrastructure can have severe consequences, including the loss of life. The tracks and programs for the ASHRAE Winter Conference will focus on resources to design, build, control, commission and operate facilities and infrastructure that need to not only be efficient, but resilient." In addition to the tracks below, a Refrigerant mini-track and a Residential mini-track will be presented at the 2018 AHR Expo, Jan. 22-24.

Plenary Session Keynote Speaker

Saturday, January 20 at 3:15 p.m.



Debbie Sterling Founder & CEO of GoldieBlox

Debbie Sterling is the Founder and CEO of GoldieBlox, an award winning company on a mission to "disrupt the pink aisle" with toys, games, and media for girls. Debbie is an engineer, entrepreneur, and one of the leaders in the movement toward getting girls interested in science, technology, engineering, and math. She was named TIME's "Person of the Moment," Business Insider's "30 Women Who Are Changing the World," and was recently added to Fortune Magazine's prestigious "40 Under 40" list. In early 2015, Debbie was inducted as a Presidential Ambassador for Global Entrepreneurship and honored by the National Women's History Museum with a "Living Legacy" Award for her work to empower girls around the world. Debbie received her degree in Engineering at Stanford University in 2005.

Tracks Include:

- Systems and Equipment
- Fundamentals and Applications
- Standards, Guidelines and Codes
- Earth, Wind & Fire
- Transportation IAQ and Air Conditioning
- Tall Buildings
- Modeling Throughout the Building Life Cycle
- Heat Exchange Equipment

Technical Tours

Gas Technology Institute (GTI) Lab

Monday, January 22, 2:30 – 5:30 p.m.
\$30

GTI's work includes ongoing development of technologies to improve the efficiency of residential and commercial HVAC and water heating products.

Method Home Soap Manufacturing Plant

Monday, January 22, 2:30 – 5:30 p.m.
\$30

The new state-of-the-art facility showcases the company's dedication to sustainability with the first LEED® Platinum manufacturing facility in its industry.



340 On the Park

Tuesday, January 23, 1:00 – 4:00 p.m.
\$30

340 On The Park is a 62-story, luxury multi-family high rise constructed in 2007 and managed by Lieberman Management Services, which utilizes a district chilled water service for the building's cooling needs.

The Plant

Tuesday January 23, 1:00 p.m. – 4:00 p.m.
\$30

This facility will eventually divert over 10,000 tons of food waste from landfills each year, while providing enough electricity to power over 250 homes.

General Tours

Chicago Neighborhoods

Sunday, January 21, 9:00 – 11:00 a.m.
\$65

Chicago Highlights 101

Sunday, January 21, 1:00 – 3:00 p.m.
\$65

Chicago's Southside Hidden Highlights Tour

Monday, January 22, 2:30 – 4:30 p.m.
\$65

Moody Tongue Brewery Tour

Tuesday, January 23, 1:00 – 4:00 p.m.
\$95

Gold Coast Tour

Tuesday, January 23, 1:00 – 3:30 p.m.
\$65

ASHRAE Learning Institute Courses

Full-Day Professional Development Seminars

By January 2, 2018:
\$510 (\$415 ASHRAE Member)

After January 2, 2018:
\$540 (\$445 ASHRAE Member)

Saturday, January 20, 2018, 8am-3pm

The Commissioning Process in New & Existing Buildings

Complying with Requirements of ASHRAE Standard 62.1-2016

Tuesday, January 23, 2018, 9am-4pm

Humidity Control I and II: Principles & Applications **Updated!**

Optimizing Indoor Environment: Increasing Building Value **NEW!**

Half-Day Short Courses

By January 2, 2018:
\$184 (\$139 ASHRAE Member)

After January 2, 2018:
\$214 (\$169 ASHRAE Member)

Sunday, January 21, 2018, 3:30-6:30pm

Air-to-Air Energy Recovery Applications: Best Practices

Laboratory Design: The Basics and Beyond

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

Understanding and Designing Chilled Beam Systems **NEW!**

Monday, January 22, 2018, 8:30-11:30am

Designing High-Performance Healthcare HVAC Systems

Energy Management Best Practices

High-Performance Building Design: Applications & Future Trends

Monday, January 22, 2018, 2:45-5:45pm

ASHRAE Guideline 0 – The Commissioning Process

Design of Affordable and Efficient Ground Source Heat Pump Systems

Successfully Managing the Risk of Legionellosis Using ASHRAE Standard 188-2015

Tuesday, January 23, 2018, 9am-12pm

Variable Refrigerant Flow Systems: Design & Application

Fundamental and Application of Standard 55

Complying with Standard 90.1-2016: HVAC/Mechanical **NEW!**

Tuesday, June 23, 2018, 1-4pm

Complying with Standard 90.1-2016: Appendix G

Designing Toward Net-Zero Energy Commercial Buildings

IT Equipment Design Evolution & Data Center Operation Optimization

Certification Exams

Saturday, Jan. 20 and Wednesday, Jan. 24

Apply by Dec. 20 to sit for an ASHRAE Certification exam in one of these key fields:

Commissioning | Energy Assessment | Energy Modeling | Healthcare Facility Design | High Performance Building Design | Building Operations.

Conference Registrants can include the Certification application fee when registering, and apply by December 20 to sit for the exam. Applications are available at www.ashrae.org/certification.



SOCIAL EVENTS

Welcome Party

Saturday, January 20
6:30 – 8:30 p.m.
Cost: \$55



Catch up with old friends and make new ones as the Conference kicks off with the traditional Welcome Party. The event takes place at the Chicago Cultural Center, a few walkable blocks from the Palmer House Hilton.

Young Engineers in ASHRAE (YEA) Hospitality Suite

Sunday, January 21
4 – 6 p.m.
Palmer House

Young professional members age 35 and younger are invited to visit the YEA Hospitality Suite. The suite offers social and networking opportunities, and light refreshments are served.

President's Luncheon

Monday, January 22
12 – 2 p.m.
Cost: \$45
Palmer House

2017-18 ASHRAE President Bjarne Olesen provides an update on his presidential theme, "Extend." Major contributors to the ASHRAE RP Campaign also are recognized.

Members' Night Out

Tuesday, January 23
Reception 6:15 – 7:15 p.m.
Dinner 7:15 – 10 p.m.
Cost: \$55
Palmer House



Feeling lucky? Take a chance and join us for an evening of fun with another Chicago "back room" action casino party. Here's the deal, come and test your skills or enjoy being serenaded by a local jazz band.



www.ashrae.org/chicago

REGISTRATION

Early Bird fees from September 1 through November 2

- \$535 member/\$745 non-member
- \$510 first-time member attendee/\$720 first-time non-member attendee
- \$135 Life Member

Advance fees from November 3 through January 2

- \$560 member/\$770 non-member
- \$535 first-time member attendee/\$745 first-time non-member attendee
- \$145 Life Member

Onsite registration fees from January 3 through 24

- \$695 member/\$900 non-member
- \$670 first-time member attendee/\$875 first-time non-member attendee
- \$270 member one-day fee/\$320 non-member one-day fee
- \$155 Life Member

Registration fees for speakers, student branch advisors and students

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

