

SAVE THE DATE | 100th Anniversary Banquet: May 13th 6–10pm



DINNER MEETING

CO₂ Refrigeration

Monday, April 18, 2016

Speaker: Joe Sanchez – Engineering Manager | BITZER, US

Times:	4:15 PM	Board Meeting
	5:30 PM - 6:30 PM	Attitude Adjustment Hour!
	6:30 PM	Dinner
	7:00 PM	Presentation

Location: Harry's Steakhouse
5664 Brecksville Road
Independence, OH 44131

R.S.V.P. via your Constant Contact invitation.
Guests are welcome for a \$25 meal charge.

Joe will discuss the advantages of CO₂ in the refrigeration trades, in which it is gaining popularity. He will then proceed to talk about where the technology might go in the future with new technology trends, including expansion into DHW production and the HVAC realm.

THIS
MONTH'S
SPONSOR



Carrier

A United Technologies Company

THE PRESIDENT'S CORNER

BY BRENDAN HALL



Let me talk to you about building infrastructure...

Is what I say to my 2 year old when she won't go to sleep. Works like a charm. To the general public, our industry can certainly fly under the radar. One sign of a job well done can be never hearing back about a project ever again after it is done. Another side benefit of the boom in interest in sustainable building and energy efficiency is that it has increased the interest in what we do. At the very least I've seen some condensing boilers on This Old House.

That being said, any opportunity to highlight our industry is worth taking, which is why I would like to use our centennial gala as a way to draw attention the work that we all do and celebrate some of the past accomplishments of our members. To do this I would like to give all of our members who may have a company history, an important person or project they are particularly proud of an opportunity to share that. We are going to create 24" x 36" posters from the submissions of our members and display them at the cocktail hour of the gala. The posters can then go home with their owners to be displayed at the office. Hopefully with everyone's help we can create a full gallery of posters.

If you have an item that you would like to include, please provide a high resolution picture and a paragraph description and send it to our Chapter Historian, Tom House at thouse@mussun.com by May 2nd. I'm looking forward to seeing the submissions.

Other important dates coming up:

April 21 - ASHRAE Webcast at Karpinski Engineering

April 28 - NFL Draft

May 2 - Last day for Ticket Sales to Centennial Gala

May 13 - Centennial Gala at the Tudor Arm Hotel

Jun 7 - Membership Promotion Golf Outing at Sugar Bush



JOE SANCHEZ
Engineering Manager

BITZER, US
Atlanta, Georgia

Joe joined BITZER, US 11 years ago and is currently the Engineering Manager. He manages the Application Engineering, Compressor Package Design and Pressure Vessel Design Engineering Teams. He has a Bachelor of Science in Mechanical Engineering from Northwestern University. Joe is a member of ASHRAE and serves on the Technical Committee 8.1 (Compressors). He is active with IIR as a member of the CO₂ Handbook Committee. He has an article on CO₂ published with the RSES magazine. He is also the chairman of the Technical Committee of the AHRI Compressors section.

ASHRAE SCHOLARSHIP APPLICATION

If you know of someone who is actively attending college to earn a mechanical or architectural engineering degree at a Northeast Ohio University or out of the area, but is from the Northeast Ohio area, please point them in a direction of a Sal Triana Scholarship possibility. The intent of this scholarship is to help those engineering students seeking to someday make a career in the HVAC consulting/engineering/sales businesses get through the financial struggles of a higher education.

Applications can be found on the Cleveland ASHRAE Website and e-mailed to kborah@karpinskieng.com.

If you have any questions, please feel free to contact Ken Borah at **216-391-3700**.





CONTACT A POLICYMAKER?

Of course you can! Where do you turn when you want to take action on a local, State or national issue? For much of ASHRAE's history, there wasn't an effective answer to this question. However, responding in 2015, the Society joined the growing ranks of other professional organizations by obtaining user-friendly software that tracks legislation and regulations at the US Federal and State levels.

BillTrack 50/Votility puts everything members need for **successful grassroots advocacy contact in one place**. This private, member's only platform makes it super simple to engage in policy issues. It enables ASHRAE's members to contact elected and appointed leaders at virtually any level of government to register support for or concern about proposed legislation, regulations, and other policy concerns. **Sample letters are provided** (which members are encouraged to personalize) and policymakers' email addresses load automatically. **All members have to do is fill in their own name, address, email and click SEND**. Then, through the wonder of electronic communication, one or dozens of government officials are contacted. The resulting effect is that, for the first time, the grassroots strength and technical expertise of ASHRAE's members can be made known to policymakers at scale – which has the potential to alter the course of legislation and regulations. Because we believe in continuous improvement and, as the saying goes “you can't manage what you don't measure,” the software provides us with key metrics that allow us to learn from these efforts, enhancing the effectiveness of future activities.

Although only three Action Alerts have been issued to targeted groups of ASHRAE members, almost 1,000 messages have been sent from members to various government officials on legislation. This is an impressive response for something no one in ASHRAE had used before. **To access the software or to watch a YouTube tutorial, go to www.ashrae.org/GGAC.**

Though the bill tracking portion at this time only follows proposed US Federal and State legislation and regulations, **the element in the software for contacting policymakers can be used anywhere in the world as long as that policymaker has a valid email address**. What a difference software can make and what a difference ASHRAE members can have when united in our efforts for “shaping tomorrow's built environment today!”

Stay tuned: The local Cleveland Chapter GGAC committee will work with ASHRAE Society in understanding how to leverage this platform for contacting local officials on local, state and federal topics.





ASHRAE Learning Institute 2016 Spring Online Course Series

2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

Internet: www.ashrae.org/onlinecourses

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

Price: \$284 (\$219 ASHRAE Member); Two-part courses: \$484 (\$359 ASHRAE Member)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

Combined Heat & Power: Creating Efficiency through Design & Operations

Mon, March 28, 2016 – 1:00 pm to 4:00 pm EDT

Commissioning Process & Standard 202

Wed, March 30, 2016 – 1:00 pm to 4:00 pm, EDT

IT Equipment Design Evolution & Data Center Operation Optimization

Wed, April 6, 2016 – 1:00 pm to 4:00 pm, EDT

Complying with Standard 90.1-2013: HVAC/Mechanical

Wed, April 13, 2016 – 1:00 pm to 4:00 pm, EDT

Laboratory Design: The Basics and Beyond

Mon, April 18, 2016 – 1:00 pm to 4:00 pm, EDT

Standard 188-2015 – Successfully Managing the Risk of Legionellosis

Mon, April 25, 2016 – 1:00 pm to 4:00 pm, EDT

Air-to-Air Energy Recovery Applications: Best Practices

Wed, April 27, 2016 – 1:00 pm to 4:00 pm, EDT

Fundamental Requirements of Standard 62.1-2013

Mon, May 2, 2016 – 1:00 pm to 4:00 pm, EDT

Variable Refrigerant Flow System Design & Applications

Mon, May 16, 2016 – 1:00 pm to 4:00 pm, EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

Exceeding Standard 90.1-2013 to Meet LEED® Requirements

Part 1: Mon, April 11, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, April 20, 2016 – 1:00 pm to 4:00 pm, EDT

Operations & Maintenance of High-Performance Buildings

Part 1: Tue, May 17, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, May 18, 2016 – 1:00 pm to 4:00 pm, EDT

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Cleveland • Halifax • Hong Kong • Kuala Lumpur

Miami • Minneapolis • San Francisco • Vancouver

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II – Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register.

BUILDING OFFICIALS CONFERENCE OF NORTHEAST OHIO



The Building Officials Conference of Northeast Ohio (BOCONEO) is an organization comprised of building officials, plans examiner, inspectors, fire officials, architects and engineers. Our main purpose is to educate our members in proper code enforcement and develop a better understanding of the various codes and standards. Part of our mission is to reach out to other organizations when we see a potential code change that will affect the work they perform or communicate issues that we come across in the course of our daily duties as code officials.

With the adoption of the 2011 Ohio Mechanical Code, there were changes placed in Section 403, Mechanical Ventilation which updated the outdoor air ventilation requirements so they were consistent with the requirements of ASHRAE 62.1.

Since the time that this change went into effect five years ago, we are still receiving mechanical documents that are not taking into account these requirements. As a plans examiner and moderator for our plans examination roundtable monthly meetings, we have discussed among many plans examiners that only about half the plans that get submitted for review are following the correct method for calculating the outdoor air requirements. In an effort to create better projects and move the plan review process along, BOCONEO wanted to bring this to your organization so that you could discuss this amongst your members and help in the education of those designers who may still be calculating the rates under the old version of the code.

Paul Kowalczyk, BO, MPE, RA
City of South Euclid Building Official
BOCONEO Past President
www.boconeo.org



Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

April 21, 2016 | 1:00–4:00 p.m. EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs).



T. David
Underwood, P.Eng.,
Fellow ASHRAE,
Life Member, CPMP



Marc Brune, P.E.



Philip Macey, AIA



Paul Torcellini,
Ph.D., P.E.

Register to view the webcast with the local chapter and have lunch on us!

Viewing held at:

Karpinski Engineering
3135 Euclid Avenue
Cleveland, Ohio 44115



ASHRAE MEMBERSHIP PROMOTION GOLF OUTING INFO/DIRECTIONS



Tuesday, June 7, 2016

Sugar Bush Golf Club

11186 SR 88 · Garrettsville, OH 44231

P 330.527.4202

TOURNAMENT GOLF WILL BE PLAYED
Limited to 120 golfers

9:00am
10:00am
3:30pm
4:00pm

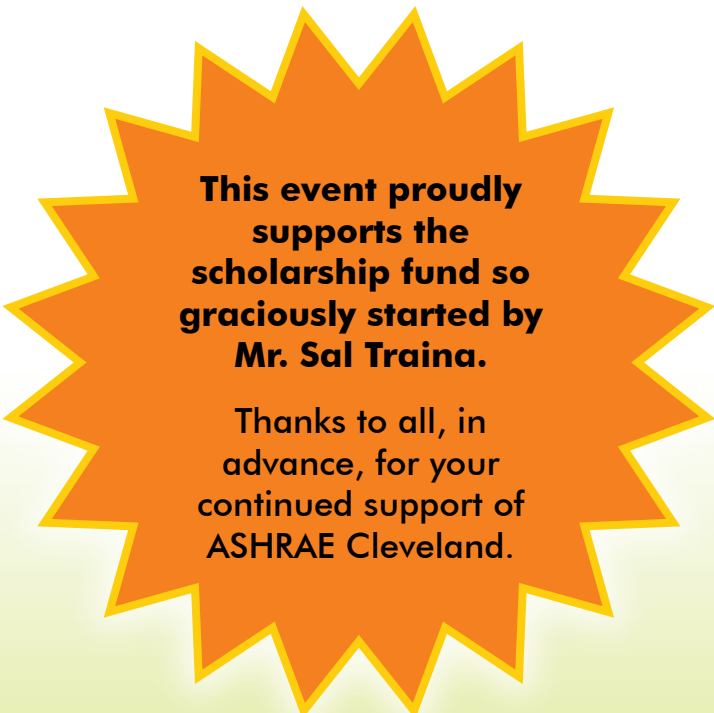
Registration Begins
Shotgun Start
Cocktails
Steak Dinner/Prizes



Lunch will be provided at your turn between holes 9 & 10, or 18 & 1

New members golf & dine for FREE with receipt of new membership registration within two weeks prior to event.
Non-members are welcome.

Contact Lee Hodkey @ 216-391-3700 or lhodkey@karpinskieng.com to donate Door Prizes!



Directions from Akron:

Take I-76 E to SR 5/44 N toward Ravenna.
Take 14 W/44 N.

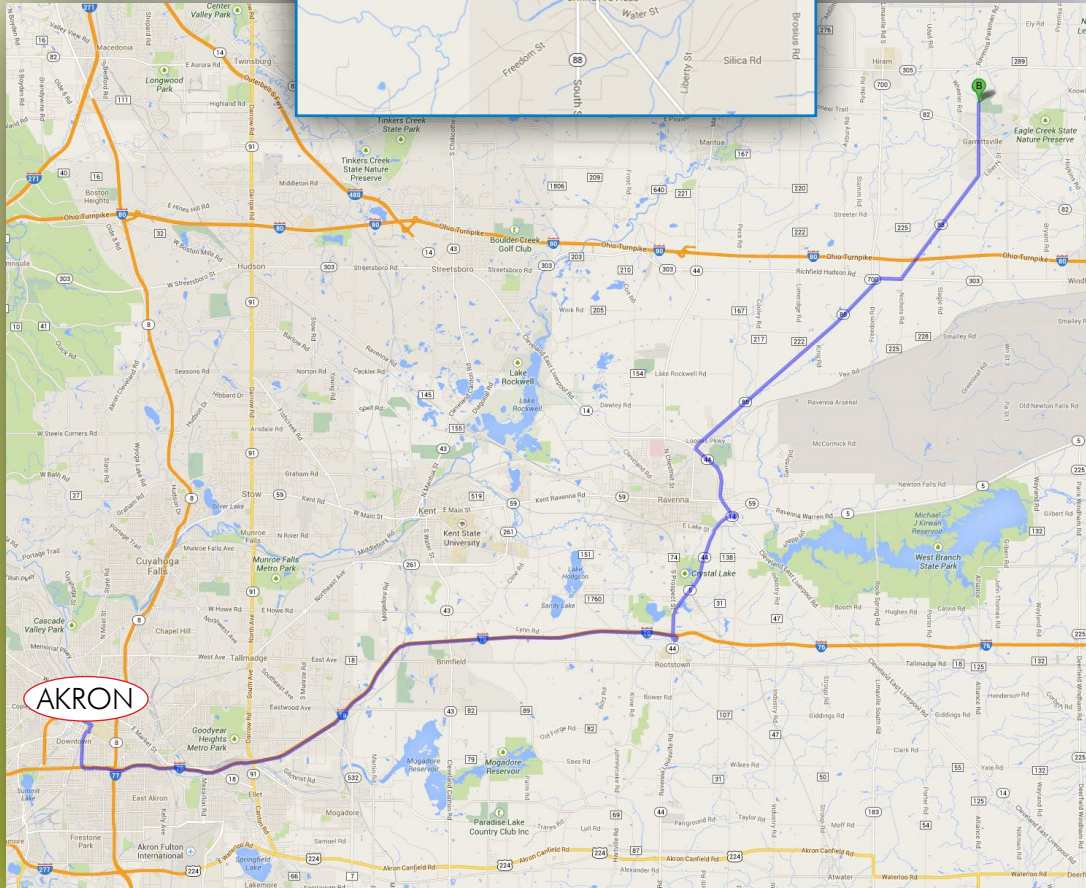
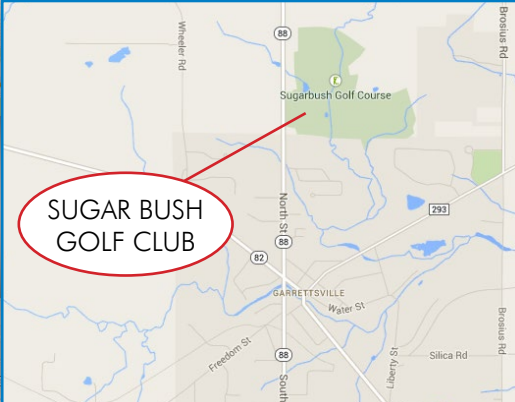
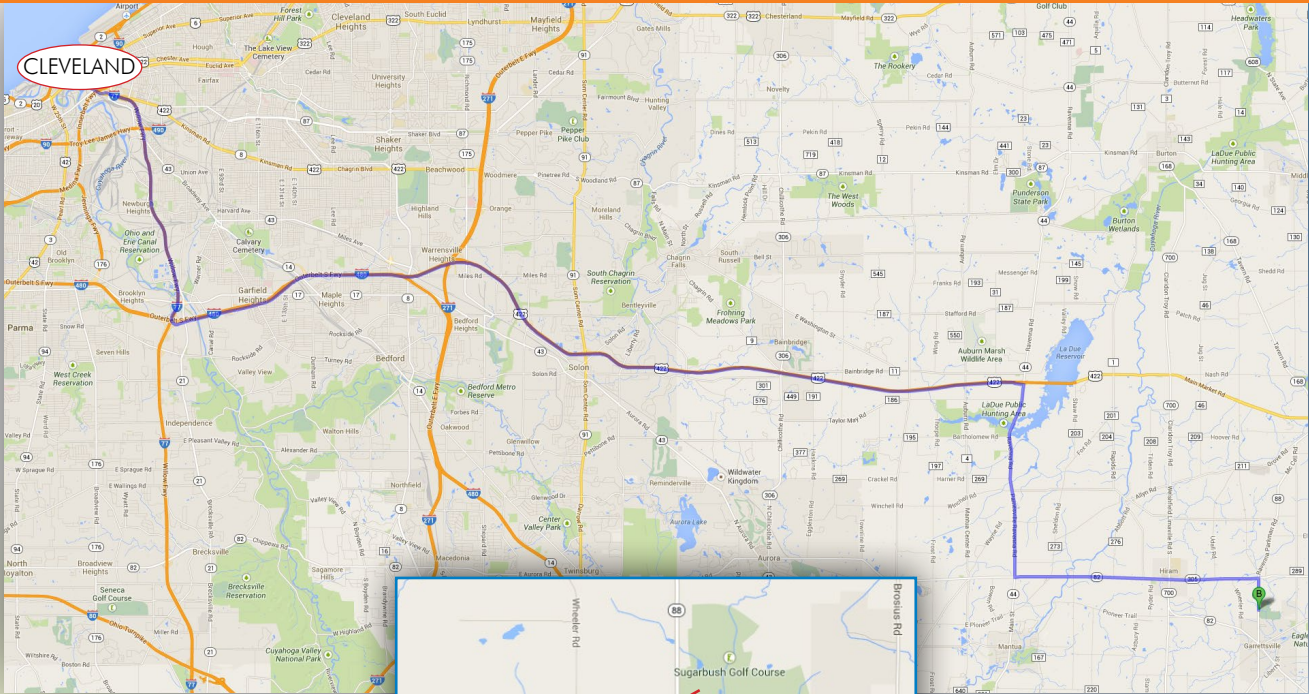
Take right at second traffic light (which is SR 88 N).
Travel on SR 88 N for about 15 miles.
Golf course will be on the right hand side.

Directions from Cleveland:

Take 480 E/271 Interchange to 422 E toward Solon.
Travel 422 E to Mumford Rd.
Turn right onto Mumford Rd.
Continue on Mumford until it dead-ends into SR 88 S.
Turn right onto SR 88 S.
Travel 1.5 miles and the golf course will be on the left hand side.



ASHRAE MEMBERSHIP PROMOTION GOLF OUTING MAPS





ASHRAE MEMBERSHIP PROMOTION GOLF OUTING SIGN-UP



**TUESDAY, JUNE 7, 2016
SUGAR BUSH GOLF CLUB**

	<u>Name</u>	<u>Company</u>	<u>Member (y/n)</u>
Team Captain (Sponsor)	_____		
Player No. 2	_____		
Player No. 3	_____		
Player No. 4	_____		

For each additional foursome please complete an additional registration

Golf & Dinner _____ x \$95/person = _____

Dinner Only _____ x \$25/person = _____

Sponsor a Hole _____ x \$75 = _____

(All signs will be provided by the Cleveland Chapter)

Name on Sign _____

Beverage Donation = _____

Cash donation to the Sal Triana Scholarship Fund = _____

Advanced 50/50 Raffle Tickets (7 for \$5) _____ x \$5 = _____

(tickets will be 5 for \$5 on the day of event) (7 tickets)

TOTAL = _____

**Make Checks Payable To: CLEVELAND ASHRAE CHAPTER
Mail Payment To: CLEVELAND ASHRAE GOLF OUTING
c/o Karpinski Engineering
Attn: Matt Morgan
3135 Euclid Avenue
Cleveland, Ohio 44115**

If you bring a non-member and they join the Society and the Cleveland chapter of ASHRAE within two weeks of the event, then that individual's golf and dinner is free. A receipt of new membership registration must be received on or by the day of the event. Potential members can sign up at www.ashrae.com.



2015

September 21, 2015

**Variable Volume Kitchen
HVAC Systems**

Speaker: Stephen Holbrook -
Accurex
Location: Harry's Steakhouse

October 19, 2015

**Steps Toward Achieving
Advanced Energy Performance
in Existing Buildings**

Speaker: Terry Townsend
Location: Harry's Steakhouse

November 16, 2015

**SMACNA Joint Meeting &
Shop Tour with Instructional
Breakouts**

Location: SMART/JATC Facility

November 19, 2015

YEA Event: Tour

Location: Great Lakes Brewery
Time: 5:30pm

2016

January 13, 2016

**LUNCH MEETING
ASHRAE 62.1 IAQ Method**

Speaker: Charlie Waddell
Location: Harry's Steakhouse

February 15, 2016

**LUNCH MEETING
HVAC Acoustics**

Speaker: Randy Zimmerman
Location: Harry's Steakhouse

March 21, 2016

**LUNCH MEETING
Design Build for Green
Buildings
Distinguished Lecturer**

Speaker: E. Mitchell Swann
Location: Harry's Steakhouse

April 18, 2016

CO₂ Refrigeration

Dinner: Harry's Steakhouse

May 13, 2016

100-Year Anniversary Banquet

Speaker: Bjarne Olesen - ASHRAE
Society Treasurer
Location: Tudor Arms Hotel