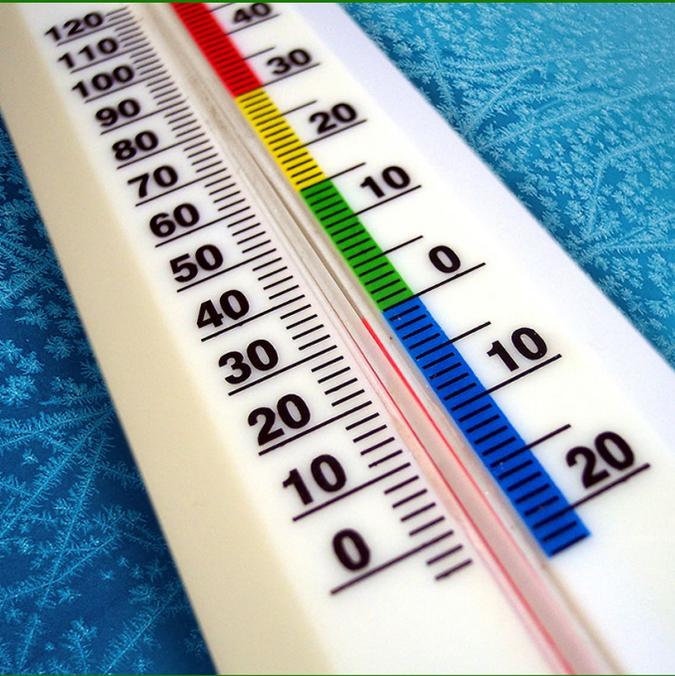




CLEVELAND ASHRAE NEWSLETTER

January 2014



JANUARY LUNCH MEETING

Update on Refrigerants: Past, Present, And Future

**Please note: Lunch meeting has been moved to
Wednesday, January 15, 2014**

Speaker: Dr. Eckhard A. Groll

Times: 11:30 AM - 11:50 AM Member Sign-In
 11:50 AM - 12:20 PM Lunch
 12:20 PM - 1:00 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.

UPDATE ON REFRIGERANTS: PAST, PRESENT AND FUTURE | GBCI Approved | 1 CE Hour | 0090010493 AIA Approved | 1 LU/HSW | GROLL01

In recent decades, the refrigeration and air conditioning sciences have been in a state of flux primarily because of the phase-out of ozone-depleting CFC and HCFC refrigerants, and secondarily because of environmental concerns related to the direct global warming impacts of some of the replacement refrigerants. Due to these concerns, there is significant worldwide interest in using substances that are naturally occurring in the biosphere as refrigerants, which are considered benign to the environment and are termed "natural working fluids".

Surprisingly, many of these substances were already used as refrigerants at the dawn of the refrigeration technology in the late 1800's. Thus, when looking at the refrigerants of the future, it is essential to understand which substances have been used in past. This presentation provides a detailed review of the past and present refrigerants, and proposes refrigerants and their respective technologies that could be used in the future. An assessment of their characteristics related to choice of one versus another, and an identification of trends set by these choices will be made.

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If you are interested in sponsoring the newsletter,
please contact Jack Malone at 216-391-3700.



THE PRESIDENT'S CORNER

BY SCOTT DUSENBURY



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2013-2014

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Happy New Year to everyone! I hope everyone had a joyful holiday season¹.

This month's corner will be short as every word I type holds up the newsletter from getting out².



Service technicians, much the thorn in many engineer's sides³; they have been known to do some pretty "interesting" fixes to get equipment back up and running. We engineers may come in after the fact just to point out all of the "repairs" to an owner and say how it should have been fixed. What many times that engineer might not see was the owner standing over the tech's shoulder constantly asking when he was going to get his heat on. Or the "this will get you up and running today, but you should have the repair done properly for the long term" statement that was never followed through on⁴. We as engineers should support the HVAC technicians and assist them whenever we are asked. They are the front line in our little world of HVAC. And in this recent cold snap, these individuals are the ones that brave the cold and wind to get buildings and owners back up and running. So I challenge engineers out there to get to know a good HVAC technician, if possible. Develop a working relationship, you will be surprised what you learn and what you can teach. If we all did this, imagine the difference we can make in buildings all over⁵.

Stay warm out there and go find a service technician and give him a hug⁶!

-Scott

¹ I was told by ASHRAE's lawyers that I have to be politically correct here. But I do hope that regardless of your personal beliefs, you did enjoy the season.

² I know that you are upset, but I am afraid of our newsletter staff.

³ Before you revolt, I am going somewhere with this.

⁴ This could be for a variety of reasons, not just because someone is cheap (though that does happen).

⁵ Sorry for the John Lennon-like statement. But if we were to all really work together; we can truly transform the industry this way.

⁶ Maybe not literally, I know a few technicians that would not receive this act of kindness too well. Plus you may end up with a call from HR demanding a meeting. So maybe just a handshake would suffice.



SPEAKER INFO



Dr. Eckhard A. Groll | Purdue University

Dr. Eckhard A. Groll is a Professor of Mechanical Engineering and the Director of the Office of Professional Practice at Purdue University. He joined Purdue University as an Assistant Professor in 1994 and was promoted to Associate Professor in 2000 and to Full Professor in 2005. He received his Diploma in Mechanical Engineering from the University of the Ruhr in Bochum, Germany, in 1989 and a Doctorate in Mechanical Engineering from the University of Hannover, Germany, in 1994. Professor Groll teaches Thermodynamics and his research focuses on the fundamental thermal sciences as applied to advanced HVAC&R systems, components, and their working fluids. Since joining Purdue, he has been the principal investigator (PI) or Co-PI on 81 research grants and 42 educational grants with a total budget of approximately \$9 million. Dr. Groll has authored or co-authored 75 archival journal articles and 129 conference papers. He has been the co-author of two handbook chapters and the editor or co-editor of seven conference proceedings. He has given 47 invited lectures/invited seminars and four keynote lectures. He serves as the Regional Editor for the Americas for the International Journal of Refrigeration and is a Fellow of the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE). Dr. Groll has been recognized for his academic leadership in higher education. He is a 2010-2011 Fellow of the American Council on Education (ACE) and participated in the Academic Leadership Program of the Committee on Institutional Collaboration (CIC-ALP) during 2009-2010. He has received numerous awards for his research and teaching excellence including the 2010 E. K. Campbell Award from ASHRAE, his induction into the Book of Great Teachers at Purdue University in 2008, and the 2007 Purdue University Faculty Scholar Award.

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**.



ASHRAE CONFERENCES 2013-2014



ASHRAE Conferences 2013-2014

Attend to See What's New, Learn New Skills, Earn PDHs, Network with Peers

ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings

Oct. 15-18, 2013 | Vancouver, BC, Canada
www.ashrae.org/IAQ2013

Comprehensive overview presented via papers.

Co-organizer:



ASHRAE 2014 Winter Conference

Jan. 18-22, 2014 | New York, NY
Jan. 21-23, 2014 | AHR Expo
www.ashrae.org/newyork

Bookstore Sponsor:



First International Conference on Energy and Indoor Environment for Hot Climates

Feb. 24-26, 2014 | Doha, Qatar
www.ashrae.org/hotclimates

Papers focused on arid and humid hot climates.

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April 7-8, 2014 | San Francisco, Calif.
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ASHRAE 2014 Annual Conference

June 28-July 2, 2014 | Seattle, Wash.
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Dennis J. Wessel, P.E., FASHRAE
Director-at-Large

Reply to: **Karpinski Engineering**
3135 Euclid Avenue
Cleveland, OH 44115-2531
Tel: 216.391.3700
Fax: 216.391.0108
dwessel@karpinskieng.com

October 29, 2013

Dear Cleveland Chapter Members,

I am writing to ask you to join ASHRAE at its 2014 Winter Conference this Jan. 18-22 in New York City, along with the ASHRAE co-sponsored AHR Expo®, Jan. 21-23. If you have already registered for this event, then thank you, and I look forward to seeing you.

By attending the Conference, you have an opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

Together, the ASHRAE Conference and the AHR Expo combine to create the ideal atmosphere for those interested in advancing the building industry, to network, inspect the latest technology and learn about the newest practices for the built environment.

As a long-time ASHRAE member, I assure you that you'll want to experience first-hand this dynamic event. If you are a first-time Conference attendee, you are eligible for special rates of \$540 by Dec. 31 and then \$675 beginning Jan. 1.

New York City is a unique location with an iconic skyline and diverse opportunities to explore culture, food and entertainment. ASHRAE's Welcome Party, held Saturday Jan. 18, takes us to Rockefeller Center in the heart of Manhattan. A short walk from the Conference Hotel, you can experience one of New York's unique venues during the winter season.

The Host Committee has also selected technical tours of sites distinctive only to New York and can direct you to countless sightseeing opportunities as well.

The networking and opportunities to learn current industry practices that you can take back to your employer are tremendous!

You can find complete conference information at www.ashrae.org/newyork. I hope to see you there.

Sincerely,

A handwritten signature in black ink that reads "Dennis J. Wessel". The signature is written in a cursive, flowing style.

Dennis J. Wessel, PE, FASHRAE, LEED
Director-At-Large



IN THE NEWS...



ASHRAE 2014 Winter Conference January 18-22, 2014 New York City, New York

New York City's iconic skyline serves as the perfect backdrop for the 2014 Winter Conference. In one of the world's top cities for most skyscrapers – nearly 600 – it's only appropriate that the Conference puts a special focus on the design, development and operation of tall buildings. And they say if you can make it in New York City, you can make it anywhere. So, ASHRAE is also taking a look at new and innovative international design strategies for meeting environmental, geographical and cultural factors. Join the Society – along with the ASHRAE co-sponsored AHR Expo – as it returns to the Big Apple for the 2014 Winter Conference.



Item of Interest:

The AHR Expo takes place **Tuesday, Wednesday, and Thursday (January 21-23)**, vs. its traditional Monday, Tuesday and Wednesday.

[TC Meeting Request Form](#) | [SPC Meeting Request Form](#)

Download a VIP Pass [HERE](#).

Conference Planner

You can learn about the latest industry practices, network, and earn professional credits and ASHRAE certifications at ASHRAE's 2014 Winter Conference on January 18-22 in New York City. The Conference Planner included [HERE](#) is an overview of all programs and activities, including technical tours, the AHR Expo, housing, registration fees and student programs.

For more information on the Winter Conference, registration, sightseeing, social events, and more, please click on the links under the Chapter Marketing Resources heading [HERE](#).





IN THE NEWS...



ASHRAE 2014 Winter Conference

Technical Programs - with our own Dennis Wessel!

Technical Program – Sunday, January 19 - Wednesday, January 22

[Technical Program \(Updated 11/25/2013\)](#)

Program at a Glance

Attend ASHRAE's Technical Program to gain knowledge from peer-reviewed papers and hands-on special sessions, experience information presented in a non-commercial format, earn Professional Development Hours, and enjoy networking opportunities.

The Technical Program features 8 tracks with a building-oriented theme:

Tall Buildings - Performance Meets Policy - Looks at opportunities in the design, development and operation of tall and super-tall buildings. Also presents the measured and measurable use of utilities, envelope (infiltration and exfiltration), building pressure, waste handling, elevators, carbon and adaptive reuse.

Building Information Systems - Investigates how building control technologies are integrated and used for building management, operation and efficiency.

Hydronic System Design - Addresses innovative hydronic system design, components and research and case studies of their application, including unintended consequences.

Building Performance and Commissioning - Examines case studies in achieving high efficiency buildings.

International Design - Addresses innovative design strategies to meet environmental elements, geography and cultures.

Environmental Health through Indoor Environmental Quality - Includes developing, evaluating and predicting optimal indoor environmental conditions, featuring case histories, lessons learned and advice to operators and designers about IEQ and disaster recovery in buildings affected by hurricanes and floods.

Systems and Equipment

Fundamentals and Applications



IN THE NEWS...



ASHRAE 2014 Winter Conference

Technical Programs

Create your own schedule online with the Personal Scheduler, which features descriptions, dates, times, and locations for technical sessions, committee meetings, ALI courses, social events, and more at the ASHRAE 2014 Winter Conference.

Saturday, Jan. 18	Sunday, Jan. 19
ALI Seminars (New York Hilton) (8:00 AM – 3:00 PM) ALI Short Courses (New York Hilton) (12:00 PM - 3:00 PM) Plenary (New York Hilton) (3:15 PM) Welcome Party (Rockefeller Center) (6:30 PM)	Technical Program (New York Hilton) (8:00 AM - 4:45 PM) ALI Short Courses (Javits Convention Center) (2:00 PM - 5:00 PM)
Monday, Jan. 20	Tuesday, Jan. 21
ALI Short Courses (Javits Convention Center) (8:30 AM - 11:30 AM) Technical Program (New York Hilton) (8:00 AM - 12:00 PM) President's Luncheon (New York Hilton) (12:15 PM - 2:00 PM) Technical Program (New York Hilton) (2:30 PM - 4:00 PM) ALI Short Courses (Javits Convention Center) (2:45 PM - 5:45 PM)	Technical Program (New York Hilton) (8:00 AM - 4:45 PM) ALI Seminars (Javits Convention Center) (9:00 AM - 4:00 PM) ALI Short Courses (Javits Convention Center) (1:00 PM - 4:00 PM) AHR Expo (Javits Convention Center) (10:00 AM - 6:00 PM) Members' Night Out (New York Hilton) (6:15 PM)
Wednesday, Jan. 22	Thursday, Jan. 23
Technical Program (New York Hilton) (8:00 AM - 12:30 PM) ALI Short Courses (Javits Convention Center) (9:00 AM - 12:00 PM) ALI Short Courses (Javits Convention Center) (1:00 PM - 4:00 PM) ALI Seminars (Javits Convention Center) (9:00 AM - 4:00 PM) AHR Expo (Javits Convention Center) (10:00 AM - 6:00 PM)	ALI Seminars (Javits Convention Center) (8:00 AM - 3:00 PM) AHR Expo (Javits Convention Center) (10:00 AM - 4:00 PM)

AHRI/ASHRAE/CRAA to Host Technology Forum

AHRI and ASHRAE, in conjunction with the China Refrigeration and Air-Conditioning Industry Association (CRAA), will host a one-day technology forum at the Javits Center, Room 1B03, on Wednesday, January 22, 2014, from 10 a.m. to 4:30 p.m. in conjunction with the AHR Expo in New York City. [Learn More >](#)

New York Winter Conference Courses

The ASHRAE Learning Institute will offer 23 courses during ASHRAE's Annual Conference. All courses are approved for continuing education credits toward maintaining P.E. licensure. [Learn More >](#)



IN THE NEWS...



ASHRAE 2014 Winter Conference

Social Events

Welcome Party

Rockefeller Center, in the heart of Manhattan just off of fashionable Fifth Avenue, plays host to the kind of grand Welcome Party that could only be found in New York City. The lavish event offers flowing champagne and premium drinks with a continuous beverage service; savory passed hors d'oeuvres; a fine spread of gourmet entrees, pastas and salads; and a delectable dessert buffet and passed sweets. Best of all, the venue offers the finest view in the city of the iconic ice skating rink at Rockefeller Center; for a small fee, guests may don a pair of skates and also partake of this celebrated New York City winter tradition. Rockefeller Center is just a short five-minute walk from the Conference hotel and is truly a unique New York experience that's not to be missed. The Welcome Party takes place Saturday, January 18.

Members Night Out

You don't have to take a trip to the theatre district for upscale entertainment. Members Night Out brings you everything you could ever want from a night on the town—fine dining, live music, a sophisticated venue. A live band and dazzling singer entertains you with big band music and hits from the 70s, 80s, and today. Enjoy the passionate singing and music, but you won't be able to resist getting up to dance. Members Night Out takes place Tuesday, January 21.

Attire: Dressy casual or formal wear recommended.

Presidential Luncheon

2013-14 ASHRAE President William P. "Bill" Bahnfleth, Ph.D., P.E., Fellow ASHRAE, ASME Fellow, invites you to join him at the Presidential Luncheon, Monday, January 19. There he presents an update on his presidential theme, "Shaping the Next."



IN THE NEWS...



ASHRAE 2014 Winter Conference

General Tours

New York Television and Movie Sites Tour

Sunday, January 19

1-4 PM

Cost: \$38

Lights! Camera! Action! This tour gives you a new way to see the Big Apple, the most filmed city in the world, and provides a front row seat to the best New York City landmarks; from the Empire State Building to Times Square to Central Park to Grand Central Station. The tour takes you off the beaten path to neighborhoods like SoHo, the Meatpacking District, Greenwich Village, Tribeca and the Upper East Side.

The licensed tour guides are all local actors and actresses who provide insider perspectives and anecdotes about filming on location.

What you'll see on the tour:

Get a look at more than 40 of New York City's best filming locations, featured in television shows and movies:

- See where the cast of *Glee* performed "I Love New York"
- Visit the apartment building from "Friends"
- Stop at the brownstone used in "I Am Legend"
- Spot The Original Soup Man featured on "Seinfeld"
- Catch a glimpse of the Daily Bugle offices in "Spider-Man"
- Pass the hotel that doubled for a Paris hotel in "The Devil Wears Prada"
- Visit McGee's Pub, the inspiration for MacLaren's in "How I Met Your Mother"

Transportation for this tour is by bus.



IN THE NEWS...



ASHRAE 2014 Winter Conference

General Tours

Ground Zero

Monday, January 20

2:15-6 PM

Cost: \$35

Recovery from the Sept. 11, 2001, attack has redefined Lower Manhattan. The monumental task of redesigning the World Trade Center site has epitomized the struggle among competing interests vying for influence and control over this historic re-working of Manhattan's oldest district. Site by site, developers, governments, 9/11 families, growing numbers of residents, the business community and others have all clashed and compromised to redefine the future there.

How is the area changing? Will the new neighborhood be an improvement? Will the new architecture uplift our sense of purpose and the perception of the tragedy? What memorials and memories will remain of 9/11? Will tourists overwhelm the neighborhood? How will security measures affect the atmosphere of the newly diversified district? These are some of the issues that you can explore on this challenging new tour.

Ground Zero tour will utilize the subway for transportation to the site. Subway tickets will be pre-purchased and an escort will go with the group on the subway. Dress for the weather.

Grand Central Terminal

Tuesday, January 21

9 AM-Noon

Cost: \$55

One-hundred years ago, Grand Central Terminal opened to great acclaim. More than 150,000 people visited it on opening day. The dramatic new structure was a thrilling symbol of the fast-expanding commercial and intellectual reach of the second largest city in the world.

A majestic Beaux Arts rendition of a classical form, Grand Central is impressive outside and within. A monumental sculpture crowns its 42nd Street façade. The Main Concourse has the soaring dimensions of a cathedral. The building seems to embody the huge purpose of the terminal — to move great numbers of people, to provide services for travelers, to outshine its rival, and to create a real estate boom with the innovation of air rights.

Additional highlights of the walk include:

- the tragedy that led to its creation
- design that made traffic flow and luggage glide
- its history-making role in landmarking New York City's heritage
- the Campbell Apartment
- the Whispering Arch

Transportation for this tour is by bus.



IN THE NEWS...



ASHRAE 2014 Winter Conference

General Tours

Financial District

Tuesday, January 21

1:30-5 PM

Cost: \$30

This walking tour celebrates the 400th anniversary of Henry Hudson's sail into New York Harbor, claiming the area for the Dutch East India Company. It highlights New York City's earliest years, the company that put down the first roots, the people who came and lived here, and the natives already here when the settlers arrived. The Dutch settlement lasted just 40 years, from 1624 to 1664. And yet these origins still shine through in this city, one of the greatest business centers in the world.

Tour highlights:

- Original shore line and geography of Manhattan
- Discussion of the implication that Dutch business, not the Dutch government, founded New Amsterdam
- Important sites of Dutch defenses and communal needs
- Discussion on why the company relinquished New Amsterdam after just 40 years
- Peter Stuyvesant and his legacy to New York

Dress for the weather as this is a walking tour.

Lincoln Center

Tuesday, January 21

1:30-4:30 PM

Cost: \$70

Considered the world's premier performing arts center, learn more about Lincoln Center's iconic landmarks, including the Revson Fountain, the newly transformed Alice Tully Hall and the Metropolitan Opera House, which have been showcased on "Sex and the City" and in movies, "Black Swan," "Moonstruck" and "Ghostbusters."

Go behind the scenes at venues where a spectacular range of artists have performed, including Luciano Pavarotti, Mikhail Baryshnikov, Leonard Bernstein, Renée Fleming and Bruce Springsteen.

Each tour is unique, and you never know what might happen. You might sit in on a rehearsal, walk out onto a stage or meet a star.

Transportation for the tour will be by bus.



IN THE NEWS...



ASHRAE 2014 Winter Conference

Technical Tours

Rockefeller Center's District Cooling Plant

Monday, January 20

3:00- 5 PM (NOTE: start time has changed from 3:30 to 3:00)

Cost: \$25

The Tishman Speyer Rockefeller Center central refrigeration plant, building management system and ice storage facility is cutting edge in commercial building refrigeration efficiency. The central refrigeration plant is the heart of the air-conditioning system and has 14,500 tons of cooling capacity. The overall system is capable of pumping 22,000 gallons per minute of chilled water which cools over 6 million square feet of commercial and retail space.

The central plant consists of three electrical drive units and one steam turbine driven system. These units create the chilled water which is pumped to over 560 independent air handlers across 12 buildings. All systems are continually monitored through a state of the art building management system that supervises every control point and alarm condition. The plant operates 24/7 to supply chilled water to the base building air systems and tenant supplemental cooling equipment for data centers and conference rooms. There are two 10,000 ton condenser water systems that support the central plant.

In 2008 Rockefeller Center added an Ice Storage Chiller Plant to reduce overall electric peak demand at the property complex during prime operating hours. The ice making and storage plant is located in a former storage area within the Rockefeller Center loading dock. The ice plant operates during off peak hours creating approximately 750,000 lbs. of ice, in 41 storage vessels, providing over 8,000 ton hours of ice storage.

This tour is within walking distance.

One Penn Plaza Cogeneration Plant Tour

Monday, January 20 – 2:15-5 PM | Tuesday, January 21 – 12:15-3 PM

Cost: \$25

Vornado Realty Trust's 6.2 MW cogeneration project at One Penn Plaza ("Peak Power One"), one of the largest cogeneration plants at an existing commercial office building in New York City, began operation in 2010.

The state-of-the-art combed heat and power (CHP) system consists of three 2.055 MW reciprocating engines, and three heat recovery steam generators (HRSGs), all housed in a sound-attenuated enclosure. The turnkey CHP system is installed on an open setback roof atop the low-rise portion of the building. The generators tie in to the main building electrical services. Waste heat from the engines are processed through the HRSGs to produce high pressure steam, which is then used to offset the building's steam load, used in summer months to cool the building using steam turbine chillers and in the winter months to preheat domestic water and condition the temperature of secondary water.

Peak Power One CHP produces 20-25 million kwh per year (approximately 50 percent of the electricity at peak) and 30 percent of the steam requirements. By capturing waste heat from the engine generators and reusing it to power both heating and cooling systems for the building, the system achieves a combined efficiency of more than 70 percent, approximately double the efficiency of conventional power supplied by the grid. The project helps meet NY State's initiative for a 15 percent energy reduction by 2015 (the New York State Energy Efficiency Portfolio Standard) and Mayor Bloomberg's PlaNYC 2030 mandate of 30 percent reduced greenhouse emissions by 2030, as well the goal to add 800 MW of distributed generation to New York City.

This tour will utilize the subway for transportation to the site. Subway tickets will be pre-purchased and an escort will go with the group on the subway.



IN THE NEWS...



ASHRAE 2014 Winter Conference

Technical Tours

The New School University Center

Tuesday, January 21

12:15-2:45 PM

Cost: \$25

This project at 14th Street and 5th Avenue is a 370,000 square foot mixed use building in construction near Union Square. Several architectural, structural, façade and mechanical innovations and unique conditions are featured including ice storage, black-water treatment and a commercial building combined heat and power (CHP) system. The building is achieving 32 percent reductions below 90.1-2007 (in design).

This tour will utilize the subway for transportation to the site. Subway tickets will be pre-purchased and an escort will go with the group on the subway.

Javits Convention Center

Tuesday, January 21

2:00-3:30 PM

Cost: \$15

After thirty years of intense use and deferred maintenance, the new Javits Center is now a revitalized, reinvigorated, state-of-the-art facility. The projected LEED Silver project includes a complete renovation and modernization, a northward expansion, and a comprehensive sustainability strategy. The building's appearance, systems, urban linkages, and day-to-day performance have been transformed, while the original space frame and overall functionality have been maintained. The Javits Center is not a structure that lends itself to easy modification since its components are either cast concrete or supported by the unalterable space frame. The team found innovative solutions to design concerns as well as creative approaches to State and City sustainability requirements. The renovated interior spaces have considerably more natural light, better indoor air quality, operational efficiency, and adaptability. The facility is projected to reduce energy consumption by more than 26%. A new high-performance curtain wall has simplified and lightened the aesthetics of the original façade by changing the façade's module from five-by-five-foot to five-by-ten-foot. This allowed for the introduction of more transparent glass with minimal, structurally glazed mullions. Solid stainless steel panels replaced the opaque portions of glass to better express the building's functionality. A 6.7-acre green roof—the second largest in the United States—mitigates the heat-island effect of the building, increases thermal performance, helps protect the roof membrane, reduces storm-water runoff by an average of 40 percent, enhances the aesthetics of the building when seen from above, and creates a natural wildlife habitat.

Bruce Fowle, Founding Principal at FXFOWLE Architects and David Choy, Senior Vice President, Building Systems, WSP, New York will lead the tour.

Shuttle pick-up will be from the 53rd Street entrance between 6th and 7th. Exit to 53rd from the exit near the hotel registration desk or the park garage. Shuttle service will run from 7am–7pm and will run approximately every 10 minutes.



IN THE NEWS...



ASHRAE 2014 Winter Conference

Technical Tours

New York Hilton

Sunday, January 19 – 3:30-4:30 PM | Monday, January 20 – 2:30-3:30 PM | Tuesday, January 21 – 3-4 PM

Cost: \$15

Located at the heart of midtown, the Hilton is one of the largest hotels in New York City. It is supported by a 3,200 ton cooling system consisting of cooling towers, centrifugal chillers with a primary and secondary chilled/hot water distribution system to perimeter fan coil units and air handlers for common spaces. High pressure steam is delivered to the premise and the hotel steps it down to low pressure steam for domestic hot water and heating use. In the early 2000s, the Hilton installed a 150kW fuel cell to manage peak demand usage and in 2013 they installed a 1.6 MW CHP system.

Hearst Tower

Student Technical Tour

Sunday, January 19

2:30-5:00 PM

Cost: \$15

Hearst Tower is the first "green" high rise office building completed in New York City, with a number of environmental considerations built into the plan. The floor of the atrium is paved with heat conductive limestone. Polyethylene tubing is embedded under the floor and filled with circulating water for cooling in the summer and heating in the winter. Rain collected on the roof is stored in a tank in the basement for use in the cooling system, to irrigate plants and for the water sculpture in the main lobby. 85% of the building's structural steel contains recycled material. Overall, the building has been designed to use 26% less energy than the minimum requirements for the city of New York, and earned a gold designation from the United States Green Building Council's LEED certification program, becoming New York City's first LEED Gold skyscraper.

Members of the design team (Flack & Kurtz), the Chief Engineer and the Property Manager will be part of the tour. The building is centrally located within walking distance from the New York Hilton, ASHRAE's headquarter hotel.



IN THE NEWS...



ASHRAE 2014 Winter Conference

Keynote Speaker

Mark Sanborn

Mark Sanborn is the president of Sanborn & Associates, Inc., an idea lab for leadership development. Leadershipgurus.net lists Sanborn as one of the Top 30 leadership experts in the world.

Sanborn serves as keynote speaker for the opening Plenary Session on Saturday, January 18.

In addition to his experience leading at a local and national level, Sanborn has written or co-authored eight books, and is the author of more than two dozen videos and audio training programs on leadership, change, teamwork and customer service. He has presented over 2,400 speeches and seminars in every state and a dozen countries.

Sanborn's book, "The Fred Factor: How Passion in Your Work and Life Can Turn the Ordinary into the Extraordinary," is an international bestseller and was on the New York Times, Business Week and Wall Street Journal bestseller lists. The long awaited sequel, "Fred 2.0" was released in spring 2013, offering the millions of Fred fans new stories, illustrations and insights to create more customer loyalty, innovative products, services and experiences. His other popular books include "You Don't Need a Title to be a Leader: How Anyone, Anywhere Can Make a Positive Difference;" "The Encore Effect: How to Achieve Remarkable Performance in Anything You Do;" and "Up, Down or Sideways: How to Succeed When Times are Good, Bad or In Between."

Sanborn is a member of the prestigious Speakers Roundtable, a society composed of 20 of the top speakers in the world today. He holds a Certified Speaking professional designation from the National Speakers Association and is a member of the Speaker Hall of Fame (CPAE).

Sanborn is a past president of the National Speakers Association and winner of The Cavett Award, the highest honor bestowed by that organization. In 2007, Sanborn was awarded The Ambassador of Free Enterprise Award by Sales & Marketing Executives International.

He lives in Highlands Ranch, Colorado, with his wife Darla and sons, Hunter and Jackson.



IN THE NEWS...



ASHRAE's High Performance Buildings Conference

Presenters and posters are being sought for ASHRAE's *High Performance Buildings Conference* which will take place **April 7-8, 2014 at Hyatt Fisherman's Wharf – San Francisco, California.**

Abstracts for presentations were due October 25, 2013, while poster PDFs are due February 21, 2014. Additional information can be found at www.hpbmagazine.org/hpb2014.

The Conference program will have a mix of invited speakers and a call for presenters. In addition, there will be a poster session on "Measured Building Performance" and "Modeled Building Performance."

"We would like to see a balance of presentations showing innovation, proven methods for improving building operation resulting in deep energy efficiency and indoor environmental quality, measured performance and HPB case studies demonstrating new technologies." conference chair, Kent Peterson said. "We are seeking posters of designed or built buildings that balance high performance building attributes of energy efficiency, water savings and indoor environmental quality."

Building upon the 2012 *High Performance Buildings Conference* and 2009 *Net-Zero Energy Conference*, the conference seeks to advance the industry's efforts to accomplish a true high-performance built environment.

"The conference topics provide a comprehensive overview of high performance building design with a focus on strategies in several areas." Peterson said.

New subject areas include water efficiency, building occupant behavior, new building technologies and indoor environmental quality. In addition, there is increased emphasis on lighting/daylighting and the building envelope.

Presentations and Posters are being sought for the following tracks:

- Building Envelope
- Building Occupant Behavior
- Building Performance Modeling
- Building Performance Measurement
- Case Studies and Lesson Learned
- Daylighting
- Indoor Environmental Quality Strategies
- Low Energy Techniques
- Market Value (Return on Investment)
- New Building Technologies
- Operating for High Performance
- Plug Load Reduction Strategies
- Policy/Benchmarking
- Water Efficiency Strategies

The conference is being presented by ASHRAE's *High Performing Buildings* magazine, the industry's premier source for measured performance of practices and technologies to promote better buildings.

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, 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.



ASHRAE REGION V
2014 WINTER REGIONAL DINNER
SUNDAY, JANUARY 19, 2014 AT 6:30 P.M.



**MCCORMICK
& SCHMICK'S**
SEAFOOD & STEAKS

Manhattan

1285 Avenue of Americas (52nd Street and 6th Avenue)
New York, NY

SALAD COURSE

Garden Salad

Mixed Baby Greens, Tomatoes, Carrots with White Balsamic Vinaigrette

ENTREES (Pick One)

Steelhead Salmon

Cedar Plank Roasted with Northwest Berry Sauce, Seasonal Vegetables, Mashed Potatoes

Chicken Picatta

Capers and Fresh Lemon, Over Orzo Pasta

Cashew Red Tilapia

Jamaican Rum Butter Sauce and Fruit Salsa, Seasonal Vegetables, Mashed Potatoes

** Vegetarian Meal Available Upon Request*

DESSERT

Chocolate Drizzled Profiterole

Filled with Vanilla Cream

\$50.00 PER GUEST includes soft drinks, coffee or glass of wine, as well as tip and taxes. All other beverages can be purchased at the bar and will be guest's responsibility.

Please contact Lee Millies at lee@rlmlm.com or **219.924.8400** to reserve your spot. I need a guaranteed number of guests by **January 17, 2014** for the restaurant. Please do not wait until the last minute.

This restaurant is approximately 0.1 miles from the Hilton Midtown which is a short walking distance away.



Walking directions to 1285 Avenue of the Americas, New York, NY 10019:

New York Hilton Midtown Hotel
1335 6th Ave, New York, NY 10019

1. Head southeast on W 54th St. toward Avenue of the Americas – go 92 feet
2. Turn right onto Avenue of the Americas
Walk 0.1 miles and destination will be on the right



ASHRAE SOCIETY UPDATES



Important Manual for Chapter Operations Update Chapter Publications (Section 6)

Members Council approved a recommendation to revise Section 6, Chapter Publications in the Manual for Chapter Operations (MCO). This change was made because of the number of complaints received concerning distribution of member contact information to companies and vendors. The majority of the complaints were traced back to the chapter product directories. Due to the ASHRAE privacy policy, revisions to the MCO were needed. Section 6 is posted on the ASHRAE website on the MCO [webpage](#). All revisions made have been highlighted in this section.

For more information concerning the MCO, chapters or regions, please contact **Vickie Grant** at vgrant@ashrae.org or 678-539-1156.

Bring a Distinguished Lecturer to Your Chapter

Follow these Easy Steps

- Contact your Chapter Technology Transfer Committee Regional Vice Chair (RVC) to find out if your chapter has been allocated a visit (RVC contact information is available on the DL webpage)
- Select a DL and topic from the database on the DL webpage: www.ashrae.org/distinguishedlecturers
- Contact the DL to confirm the chapter visit
- Submit the Participation Form (available on the DL webpage) to your CTTC RVC



If you have questions, please contact **Tammy Catchings** at 678-539-1123 or tcatchings@ashrae.org.



CHAPTER CALENDAR



2013

August 26, 2013

ASHRAE Research Promotion Golf Outing

September 16, 2013

Fan Powered Boxes/Type/When & Where to Use

Speaker: Dennis Sikkema
Location: *Harry's Steakhouse*

October 21, 2013

Social Media/Marketing
Speaker: Matthew DeWees
Location: *Harry's Steakhouse*

November 18, 2013

State of Ohio Procurement Options
Speaker: Craig Weise
Location: *Harry's Steakhouse*

December, 2013

No Meeting

2014

January 15, 2014

LUNCH MEETING:
*Update on Refrigerants:
Past, Present, and Future*
Speaker: Dr. Eckhard A. Groll
Location: *Harry's Steakhouse*

February 19, 2014

LUNCH MEETING:
Controls Sequence of Operation
Speaker: Automated Logic Corporation
Location: *Harry's Steakhouse*

March 19, 2014

LUNCH MEETING:
*Demand Controlled Ventilation
and ASHRAE 62.1*
Location: *Harry's Steakhouse*

April 17, 2014

Satellite Broadcast (DOAS)
Location: *Karpinski Engineering?*

April 21, 2014

*Distinguished Lecturers Program:
Thermally Active Structures
for Green Buildings*
Speakers: Daniel Nall and Thornton Tomasetti
Location: *Harry's Steakhouse*

May 19, 2014

TBD
Location: *Harry's Steakhouse*

June 2014

Membership Promotion Golf Outing

August 2014

Regional CRC
Location: *Detroit, Michigan*