ASHRAE Philadelphia Chapter



QUAKER CITY CLIMATE

November 2020
Volume 56, Issue 3

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Thursday, November 19, 2020
12:00 Noon to 1:30 PM
Virtual Meeting

"Air-Handling Systems for Hospitals"

Presented By:
David N. Schurk, P.E.

Air-handling units (AHU's) in hospitals provide a variety of functions that may include comfort conditioning, maintaining air quality, reducing airborne infections, odor control, and smoke ventilation, while directly contributing to the temperature, humidity, air movement, ventilation and filtration within these facilities. Additionally, they must operate as efficiently as possible in order to eliminate the burden of excessive energy costs which diminish a hospitals financial bottom line. The proper design, selection, installation and operation of these significant system components is key to a HVAC system that contributes positively to the complex dynamics of patient wellbeing and outcome. Much of the information in this presentation comes from various ASHRAE and ASHE publications, including the ASHRAE HVAC Design Manual for Hospitals and Clinics and the ASHE Mechanical Systems Handbook for Health Care Facilities.

See page 4 for more information.

There is no charge for this session,
However, you must register in advance to receive the login information.

Click here to register.

Thursday, November 12, 2020
12:00 Noon to 1:30 PM
Virtual Event

"ASHRAE HQ Tour - Region III YEA Meeting"

See page 5 for more information.

There is no charge for this session,
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Click here to register.

2020-2021

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Young Engineers in ASHRAE
Tyler Holland

PRESIDENT'S MESSAGE

Fellow Chapter Members –

On October 5th the chapter held the annual golf outing that was postponed from the spring. Over 90 people came out for a day of fun and fundraising. Approximately $4,000 was raised for ASHRAE Research. A great time was had by all, but the best day was had by Vinny Greco who had a hole in one!

Our second October event was the monthly chapter meeting with our guest speaker, current ASHRAE Society President Charles Gulledge. Over 70 people attended the webinar as President Gulledge shared project insights and views on how technology can be leveraged to help push our industry forward.

This month we will welcome David Schurk, P.E. to our chapter meeting on November 19th to speak about Air Handling Design for Hospitals. This will be a joint event with the New Jersey ASHRAE Chapter. Please join us.

In addition to the November chapter meeting, Society will be hosting a virtual tour of the new Headquarters building and a discussion on the renovation project undertaken to transform the existing building into the new Headquarters. YEA members are encourage to attend but the event is open to all.

As many of you know, traditionally our December chapter meeting is held at the Union League as a breakfast meeting. As with many things this year, we will need to pause this tradition as the board has decided that we are still not in a position to hold in-person chapter meetings. Although we won't be able to meet in person, we will still arrange for another virtual meeting in December and hope to pick a topic that will pique your interest. As always, let us know if there are topics or speakers that you would like to submit for consideration.

We are still working on the rest of the winter and spring program calendar and will keep the membership up to date as it takes shape. A focus for the remaining program calendar will be to join with other chapters for meetings.

Wishing you and your families a safe and happy Thanksgiving as we enter the holiday season.

Tim Reinking
Philadelphia Chapter President
c021@ashrae.net

ASHRAE VIRTUAL WINTER CONFERENCE
February 9-11, 2021

The 2021 ASHRAE Winter Virtual Conference will take place in a convenient, online format on February 9-11, and will include a mixture of live, pre-recorded and on-demand sessions. Additional details about the conference and committee meetings will be available in the coming weeks.

The 2021 AHR Expo originally scheduled to be held January 25-27, 2021 at McCormick Place in Chicago has been cancelled.

Click here for the latest information.

ASHRAE Philadelphia Chapter

Sponsored by: Burns

ASHRAE 90.1 Technical Seminar

*Rescheduled

Wednesday, March 24th & Thursday, March 25th

Live Instruction & Remote go-to-meeting

For More Information Contact: c021mem@ashrae.net or 610-971-2169

16 PDHs

Schedule

Wednesday March 24, 2021

7:30 - 8:00 AM	**Registration**
8:00 - 8:30 AM	**Intro, ECC, User's Manual, Scope:** Larry Spielvogel, PE Past 90.1 Chair
8:30 - 12:00 PM	**Building Envelope:** Joseph Deringer, AIA SuPerB, Past 90.1 Envelope Chair
12:00 - 12:45 PM	BREAK
12:45 - 1:30 PM	**Building Envelope:** Joseph Deringer, AIA SuPerB, Past 90.1 Envelope Chair
1:30 - 3:45 PM	**Lighting:** Carl Watson, PE Consulting Engineer and Code Official
3:45 - 5:00 PM	**Energy Modeling & App. G:** Michael Tillou, PE DOE PNNL, 90.1 ECB Committee

Thursday, March 25, 2021

7:30 - 8:00 AM	**Registration**
8:00 - 8:30 AM	**Intro, ECC, User's Manual, Scope:** Larry Spielvogel, PE Past 90.1 Chair
8:30 - 12:00 PM	**HVAC Systems:** Dick Lord Carrier, 90.1 Vice Chair & 90.1 Mechanical Committee
12:00 - 12:45 PM	BREAK
12:45 - 3:00 PM	**HVAC Equipment:** Dick Lord, Carrier, 90.1 Vice Chair & 90.1 Mechanical Committee
3:15 - 4:00 PM	**Service Water Heating:** Carl Watson, PE Consulting Engineer and Code Official
4:00 - 5:00 PM	**Compliance:** Ernie Conrad, PE Consulting Engineer 90.1 ECB Committee

The Philadelphia Chapter of ASHRAE is offering a comprehensive, in-depth and unique two-day program covering ANSI / ASHRAE / IES Standard 90.1 (2016) Energy Standard for Buildings (except Low-Rise Residential Buildings). This is the mandatory energy code in New Jersey, an option in Philadelphia and Maryland, and an expansion of the optional energy code in the rest of Pennsylvania. A program of this magnitude and depth is not available anywhere else and at this low a cost. Registration is open to everyone interested, and especially members of AIA, IES, IALD, USGBC, and CSI. **All presenters are the people who write and enforce the 90.1 Standard.**

Location:

Burns Engineering, Training Room
Two Commerce Square
2001 Market Street, Suite 600
Philadelphia PA 19103

Cost:

$100 Chapter Member and Code Official
$135 Society Member
$200 Reciprocal Society Member
(AIA, IES, IALD, USGBC & CSI only Information required)
$250 Guest

Registration fee includes both days and handouts. A continental breakfast, lunch, snacks and refreshments will be provided each day.

Standard 90.1 & 90.1 Users Manual for are available for purchase:

$90 Chapter Member or Code Official - Standard 90.1 (2013/2016/2019)
$110 Chapter Member or Code Official - 90.1 User Manual (2013/2016)
$110 ASHRAE Society Member - Standard 90.1 (2013/2016/2019)
$125 ASHRAE Society Member - 90.1 User Manual (2013/2016)
$120 Guest - Standard 90.1 (2013/2016/2019)
$130 Guest - 90.1 User Manual (2013/2016)

Available at a drastically reduced price (without shipping) when paid in advance with the seminar registration. Ordinarily, these books sell to non-ASHRAE members for $177+shipping, and to members for $133+shipping.

Register: https://ashraephilly.org/meetinginfo.php?id=104&ts=1583026970

Remote Participation (Online): Register for the seminar and then email c021mem@ashrae.net for the link and meeting details.

Public Transportation: *SEPTA Suburban Staton (3 blocks), AMTRAK 30th St Station (5 blocks)*
Nearby Hotels: *Sonesta, Soffel, The Westin, Holiday Inn Midtown, etc.*
Parking: *Burns discounted parking ($13) at the William Penn House garage, 36 S.19th St.*

Thursday, November 19, 2020
12:00 Noon to 1:30 PM
Virtual Meeting

"Air-Handling Systems for Hospitals"

Presented By:
David N. Schurk, P.E.

Learning Objectives:

- Discuss design, configuration and componentry unique to AHU's serving the healthcare environment.
- Discuss reliability and redundancy in hospital AHU's, as well as how to incorporate this cost effectively into the system design.
- Demonstrate how the criticality of space environmental requirements can impact the cooling, dehumidification and humidification strategies employed in a hospital air-handling system, and how to properly select units that will perform accordingly.
- Present various hospital filtration requirements, types and efficiencies, along with design strategies that help ensure AHU components, ductwork and final filters remain dry, and effective.
- Show the associated energy use contributed by air-handlers (including reheat and fan energy) along with design strategies that help curb hospital energy costs.

There is no charge for this session,
However, you must register in advance to receive the login information.

Click here to register.

Meet the Presenter

David serves as Director of Business Development for Global Plasma Solutions, headquartered in Charlotte NC (USA). In previous positions he worked for three of the world's largest HVAC manufacturers, including Carrier, Daikin, and Trane.

David is a Licensed Designer of Engineering Systems with over 38-years of experience in the design and analysis of heating, ventilating, and air-conditioning systems for a variety of market sectors, with a special focus on hospital/ healthcare environmental control and indoor air quality.

David attended the Milwaukee School of Engineering and is a LEED-AP who has been involved in the conception, design, and selection of HVAC systems for a number of projects achieving LEED certified status. He is also an ASHRAE Distinguished Lecturer, a Certified Energy Manager (CEM), a Certified Demand Side Manager CDSM), a Certified Water Efficiency Professional (CWEP), a Certified Sustainable Facilities Professional (SFP), a Certified Indoor Air Quality Manager (CIAQM), and is Health Care Constructor Certified (HCCC). He is active in the American Society for Health Care Engineering (ASHE) as Member and serving on the ASHE Editorial Advisory Board, the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) as Member and past Chapter President, the American College of Healthcare Executives (ACHE), the Association of Energy Engineers (AEE), and many other national and regional industry associations.



David has authored numerous technical articles for industry magazines and journals including ASHRAE, Medical Construction & Design, Healthcare Design, Engineered Systems, Heating-Piping & Air-Conditioning, and others. He is a featured presenter at national, international, and regional industry associations and events.

Thursday, November 12, 2020
12:00 Noon to 1:30 PM
Virtual Event

"ASHRAE HQ Tour - Region III YEA Meeting"

Presented By:

Ginger Scoggins, PE, CEM, CxA, LEED® AP, Principal

The Philadelphia ASHRAE Chapter would like to welcome all - especially young engineers 35 and under to a attend a **virtual tour of the new ASHRAE Headquarters**.

The new ASHRAE Headquarters building, located in Technology Park in Peachtree Corners, is a 1970's era 66,000 sq. ft. building that is being remodeled into a high-efficient, net-zero facility to become ASHRAE's worldwide headquarters. During the course of the design of the project, the design team encountered many envelope and system challenges involving the remodel of an older building and the effort to renovate it to meet the requirements of current ASHRAE 90.1 energy goals, as well as the challenge of designing to a stringent list of owner project requirements. This presentation will focus on those challenges and how they were addressed by the owner, design, and construction team in order to meet the project goals.

4 Learning Objectives:

1. Thru this case study the attendees will be able to understand the challenges associated with renovating an older building to achieve an aggressive energy target required by the building owner.
2. This presentation will provide architects and engineers alike a greater understanding of the requirements of the new ASHRAE Net Zero Energy Design Guide for Office Buildings
3. Architects will be provided with information regarding the requirements of a building envelope to meet window-to-wall ratio requirements of ASHRAE 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings.
4. This case study will review the inter-connectivity between the owner, design team and construction manager in a lessons learned format for participant knowledge on future projects.

There is no charge for this session,
However, you must register in advance to receive the login information

Click here to register.

Meet the Presenter

Ginger Scoggins is a licensed mechanical engineer with 32 years of experience. She is the President and Co-owner of Engineered Designs, Inc., a full-service engineering which she founded 22 years ago. In addition to running her firm, Ginger has been heavily involved in ASHRAE (American Society of Heating, Refrigerating and Air-conditioning engineers) since 1988 when she joined the Triangle Chapter in Raleigh, becoming the first female president of the chapter in the 1995-96 year, the first female Regional Vice-chair, and the first female Director & Regional Chair for the Region. Recently, Ginger completed a 2-year term as a National ASHRAE Society Vice-President and was named a Fellow of the organization.



Ginger is current Chair of the ASHRAE Building Ad-hoc Committee, overseeing the sale of the existing ASHRAE Headquarters located at Tullie Circle in Atlanta to CHOA (Children's Hospital of Atlanta), as well as the search and purchase of the new ASHRAE Headquarters located at 180 Technology Parkway in Peachtree Corners.

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2020-2021

All meetings through December will be virtual. More details to follow!



Government Activities Update

New Jersey School and Small Business Energy Efficiency Stimulus Program:

The New Jersey State Senate has introduced bill SB3033 to ensure that school and small business HVAC systems are upgraded to safely prepare schools and small businesses for operating during the coronavirus 2019 pandemic and to generally improve the health and safety of the school and small business environment. The program will also fund the upgrading of old, inefficient plumbing fixtures that waste water and energy. Further, this bill is intended to create jobs across the State.

Click here to read the entire bill.

Anthony Scaccia, PE (DE), LEED AP BD+C
Government Activities Chair
c021ggac@ashrae.net

ASHRAE Philadelphia Chapter Digital Directory

Our 2020-2021 Chapter Digital Directory is now complete.

This digital version is replacing the paper versions from years past. This provides flexibility during these challenging times, having access anywhere. It's easy to use, highly interactive, and always up to date. We hope you enjoy this refreshed publication.

The link to the directory is on our home page on the website, or you may click here to advertise or purchase access to the directory!

CTTC Article

It is generally agreed that source removal of contaminants remains the single best method for cleaning and decontaminating HVAC systems. One of the tools used to improve air quality from HVAC systems is the use of ultraviolet lighting within the system, intended to decrease the level of airborne pathogens and allergens going through the HVAC system and thus into the indoor air environment. Currently a broad range of information exists regarding the use and efficacy of ultraviolet lighting. In working with all parties associated with indoor air quality, NADCA recognizes the need to provide direction in this area.

Click here to read the entire article..

Invest in ASHRAE and Help Shape our Future - Give to ASHRAE RP Today!

ASHRAE's Research Promotion Campaign generates funds to support ASHRAE research, YEA, Education (ALI), Endowed Research through ASHRAE Foundation, YEA Programs, Scholarships, and the General Fund. Research, the backbone of ASHRAE, remains the primary fund of the program with over $2 million raised for this program annually.

All contributions received by ASHRAE significantly assist in ensuring that the Society continues to have the resources needed to sustain and expand its work. ASHRAE is very thankful for the support of all our donors and will strive to utilize all resources to better serve our members, the HVAC&R industry and society!

Click here if you would like to support ASHRAE's mission, programs, and member services with a gift through the RP Campaign.

If you have any questions, please contact the Philadelphia Chapter's Research Promotion Chair, Gary Debes, at c021rp@ashrae.net.

Thank you for your support!

The Philadelphia Future City Competition will be virtual on January 30, 2021.

The 2020—2021 Future City Theme is ***Living on the Moon***.

At night, surrounded by stars or clouds, the Moon looks distant and lifeless. However, it holds a place of unique beauty and dominance in the sky and has been inspiring humanity for eons. Dreamers of all kinds—artists, science fiction writers, scientists, engineers—have imagined a thriving city on the Moon, one with healthy people and a resourceful, sustainable ecosystem. New ideas are constantly being dreamed up and tested.

The Competition Challenge:
Design a future lunar city and provide examples of how your city uses two Moon resources to keep your citizens safe and healthy.

For more information, to volunteer, to sponsor, or to register, go to https://futurecityphilly.org/

Questions? Contact the Regional Coordinator, Jennifer Wetzel: coordinator@futurecityphilly.org , (215) 573-3935

The Philadelphia Chapter
of the
American Society of Heating,
Refrigerating and Air
Conditioning Engineers, Inc.

994 Old Eagle School Road
Suite 1019
Wayne, PA 19087-1866
P 610-971-2169
F 610-971-4859

Visit
our web site at:

www.ashraephilly.org

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Republication of material contained herein is expressly forbidden without official Chapter authorization. The Chapter does not speak or act for the Society.

Any member with material to submit for inclusion in the *Climate* can send the information to:

Hope Silverman
P 610-971-2169
hope@mmco1.com

Material can include letters to the editor, member news, upcoming events, comments on chapter programs or issues, etc.

New Philadelphia Chapter Members

Student Member:
Gabriel Grajewski

Chapter Members:
Bob Brackett
Francis Miraglia
Randall Hilston
Regis Gaughan
Nick Bublavi
Mark Trautman

What are the benefits of paying Philadelphia Chapter dues* ?

Discounts:

$200 Discount for Basic Class
$150 Discount for 90.1 Seminar
Free access to the Digital Directory
And much more!

* Note that Philadelphia Chapter Membership Dues are $35/year.

To receive discounts, please remit you Chapter dues when renewing online or applying for a new membership. Feel free to upgrade online by clicking here or contact c021@ashrae.net for assistance.

Membership Advancement

If you are currently an ASHRAE Associate Member, becoming a full Member is easier than you think! The following count toward the required **12 points** to advance to full membership status. You must update your ASHRAE online biography and send an email to membership@ashrae.org to advance.

Non-accredited degree = 4 points
PE = 4 points
Accredited degree = 6 points
Industry experience = 1 point/year