ASHRAE Philadelphia Chapter

December 2020
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QUAKER CITY CLIMATE

Tuesday, December 15, 2020
12:00 Noon to 1:30 PM
Virtual Meeting

"Humidity Control with and without Reheat"

Presented By:
Thomas Durkin, P.E.

Durkin's approach is that most applications do not need for designers to control humidity, rather just make sure it doesn't get out of control. Humidity control can be active or passive, but it should never be ignored. This talk will explain low cost but highly effective solutions that work in all climate zones.

This is a joint meeting with the New Jersey Chapter of ASHRAE.

See page 4 for more information.

This is an Employer Recognition and
Research Promotion Donor Appreciation Event!

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

Click here to register.

ASHRAE 90.1 Technical Seminar
March 24 & 25, 2021
16 PDHs
See page 3 for more information.

2020-2021

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Judd Vail

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Dan Brown

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Michael Calabrese, PE

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Tyler Holland
Sean Hughes, PE
Mike Magee
Anthony Scaccia, PE
Nathan Ware

Attendance
Nathan Ware

Basic School Coordinator
James Lill, PE

Chapter Historian
Sean Hughes

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Mike Magee

Electronic Communications
Mark Carbonaro, EIT

Government Activities
Anthony Scaccia, PE

Honors and Awards Committee
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Membership Promotion Chair
Michael Calabrese, PE

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Hope Silverman

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Eric Feinschil

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Michael Calabrese, PE

Reception
Robin Martin

Refrigeration
Hasanaat Prophete

Research Promotion Chair
Gary Debes

Special Events
Eric Feinschil

Student Activities Chair
Tyler Holland

Young Engineers in ASHRAE
Tyler Holland

PRESIDENT'S MESSAGE

Fellow Chapter Members –

The countdowns are in full swing – to the holidays, to the end of the year, to a vaccine release... Within our chapter we are counting as well – Research Promotion donations that is! At this month's chapter meeting we will recognize our corporate sponsors and individual donors that have been generous enough contribute to the campaign. While we have started the year off on a good foot relative to the campaign and achieved 40% of our goal, most of those funds have been generated through corporate sponsorships that are seen at the beginning of the year and contributions tend to decrease as the year goes on. During this time of giving, we ask that you think of ASHRAE, and Research Promotion in particular, and donate when and what you can.

A few reminders of the importance of Research Promotion and what donations are used for:

- The most significant research is in the area of human comfort and the properties of materials and systems used in buildings and refrigeration systems.
- Society also funds projects addressing acoustics, duct design, the effect of oil in refrigerants, load calculations, thermal conductivity, simplified energy analysis procedures, weather data, refrigerant property data, fire and smoke control and solar design.
- Results are published and become the foundation for the ASHRAE Handbooks, white papers that guide our industry, standards and special design manuals.

If you decide to participate in the campaign, we ask that you consider earmarking your contributions for the Debra Kennoy Scholarship. The scholarship fund was established to encourage female college students to pursue studies in engineering. Debra Kennoy was a Philadelphia Chapter member whose work with Arkema in the refrigeration market was transformational in fighting global warming.

With regard to the program calendar, this month we have another joint meeting with the New Jersey Chapter with a talk on "Humidity Control with and without Reheat" by Thomas Durkin, P.E. We hope to "see" you there. As we look toward 2021 and continue to develop the program calendar for the rest of the ASHRAE year, please continue to send in requests and suggestions for topics you would like to see at monthly meetings, and we will do our best to accommodate.

Wishing all a happy and healthy Holiday Season and a prosperous New Year!

Tim Reinking
Philadelphia Chapter President
c021@ashrae.net

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.*

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12:00 Noon to 1:30 PM
Virtual Meeting

"Humidity Control with and without Reheat"

Presented By:
Thomas Durkin, P.E.

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the login information.

Click here to register.

Meet the Presenter

Recognized as an innovative and creative engineer throughout the Midwest, Tom directs all mechanical and plumbing engineering for SDA. Tom's designs for buildings and systems are proven to be safe, energy-efficient and cost-effective. A nationally sought-after speaker and frequent ASHRAE author who promotes energy-smart HVAC systems, Tom is also a contributor to the U.S. Department of Energy. He designed the first "Energy Star" school HVAC system in the Midwest. In 1998, Tom presented one of his innovative systems to members of the United States Congress. Tom has either invented or pioneered the implementation of nine distinct HVAC innovations, all of which save energy and reduce pollution.

Tom's design work has won twelve (12) state, national and international awards, including two ASHRAE Technology Awards. He has written many articles for the ASHRAE Journal and other industry magazines, and his work has been featured in several others. Tom is a co- author of the HVAC Pump Handbook, the definitive text on all things hydronic. .

EDUCATION
Marquette University
Bachelor of Mechanical Engineering, 1968

PROFESSIONAL REGISTRATIONS
(some may be inactive)

- Indiana, PE
- Illinois, PE
- Ohio, PE
- Kentucky, PE
- Tennessee, PE
- Missouri, PE
- Wisconsin, PE
- Certified Energy Auditor, Indiana, 1985
- Licensed Boiler Inspector, Wisconsin, 1979 LEED AP



November Meeting Screenshot



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.

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2020-2021



ASHRAE Philadelphia Chapter Digital Directory

Our 2020-2021 Chapter Digital Directory is now available.

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!

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!

CTTC Article

Continuing our theme on providing ASHRAE guidance relative to the current pandemic, please refer to the following article which addresses the “Reopening of Schools and Universities”.

https://www.ashrae.org/technical-resources/reopening-of-schools-and-universities

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Philadelphia Future City Competition

Volunteers are needed—sign up today!

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.

Future City will need many volunteers to mentor the schools (engineers preferred), judge and to keep things moving smoothly on Competition Day. New this year will be the need for Zoom Hosts (experience not required) and Zoom Experts. Please consider signing up at https://futurecityphilly.org/

Questions? Contact the Regional Coordinator, Jennifer Wetzel: coordinator@futurecityphilly.org or (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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on LinkedIn

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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.

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

