



The Anthracite Chapter
NEWS
January-2023

ASHRAE - Shaping Tomorrow's Built Environment Today

2022-2023 OFFICERS & CHAIRS

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President's Message

Hello again ASHRAE Members and Friends.

The Holidays are now behind us and we look forward to a New Year. Let's all make a New Year's resolution to attend all the Chapter meetings and get involved with the Chapter operations. Elections for 2023-2024 are fast approaching.

November's meeting was held at the Radisson Lackawanna Station in Scranton to a dismal turnout, partly due to the unexpected winter weather. However, the food was excellent and we were treated to an informative and entertaining presentation by Ray Hickey on Pool Dehumidification. We also had our bowling event organized by our Student Activities and YEA Chair, Joe Bradley. More information can be found in the "News and Notes" section.

This months meeting will be held at the Apple Tree Terrace in Dallas, PA, and the Social Hour will be sponsored by Mitsubishi Electric Trane HVAC US. Thank you Phil Latinski. The theme of the meeting is Research Promotion. Everyone should have already received an Outlook invitation to attend. Thank you to all those who accepted. If you didn't receive the invitation, or didn't respond, please reply to me no later than Friday the 13th, before 2:00 PM of your intention to attend, or register on-line by then.

The presentation for this month on "Strategic Electrification, Decarbonization and the Role of Heat Pumps", presented by Phil Latinski and Melissa Provenzano, is very pertinent to the current business climate, so be sure not to miss it.

And of course you can pre-register on-line and skip the line at: https://anthraciteashrae.weebly.com/meetings.html

See you there!

Ron Sibulsky
ASHRAE Anthracite Chapter President
2022-2023

ASHRAE ANTHRACITE CHAPTER MEETING

Tuesday, January 17, 2022

Strategic Electrification, Decarbonization and the Role of Heat Pumps

Pre-register on our website at: <https://anthraciteashrae.weebly.com/meetings.html>

Presented By:

Phil Latinski and Melissa Provenzano

Local regulations are quickly changing to prioritize electrification of building heating equipment including air conditioning and domestic water heating. Join us to learn about some of the legislation in other parts of the northeastern US to reduce carbon emissions, explain strategic electrification, review how heat pumps operate and can help reduce the carbon footprint, and discuss future building electrification opportunities and challenges.

Phil Latinski, PE, is a Commercial Area Manager with Mitsubishi Electric Trane Cooling and Heating, a leading manufacturer of variable refrigerant flow (VRF) zoning and split-zoning air-conditioning systems for both commercial and residential installations. He has a Professional Engineering License in the State of New Jersey and the Commonwealth of Pennsylvania. He holds a degree in Mechanical Engineering & Engineering Mechanics from Penn State University. Phil's hobbies include skiing, fishing, mountain biking, camping, and attending his children's athletic events.

Melissa Provenzano is a Sales Development Associate with Mitsubishi Electric Trane Cooling and Heating and works with the commercial sales team in the Manhattan office. She graduated from Stevens Institute of Technology in May 2021 with a bachelor's degree in Mechanical Engineering. Since joining Mitsubishi Melissa has had a focus on electrification initiatives and heat pump rebate programs in NYC. Her hobbies include running, baking, and reading.

A Certificate of Attendance will be emailed to attendees

Location: **Apple Tree Terrace**
4 Newberry Estate, Dallas, PA
570-674-5529

Schedule: 5:00 - 5:45 PM Business Meeting (All are Welcome)
5:30 - 6:30 PM Social Hour Sponsored by Mitsubishi Electric Trane HVAC US
6:00 - 6:30 PM Dinner/Program Registration
6:30 - 7:15 PM Dinner (Buffet)
7:15 - 8:30 PM Announcements and Presentation

Cost: **\$35.00** cash or check / **\$37.00** credit card / **FREE** for Students

Only If You Are Planning To Attend Please Respond By 2:00 PM on Friday, October 14, 2022
to Ron Sibulsky at 610-223-6528 or via email at c134@ashrae.net

NEWS and Notes

Research Promotion

An Article by our RP Chair, Amanda Hall

What would the world look like without ASHRAE Research?

Since its beginnings in 1919, ASHRAE Research has grown and expanded to address the ever-changing questions and topics facing both its members and the HVAC&R Industry and the world as a whole. The ASHRAE Handbook is constantly evolving to address these new challenges, fueled by the knowledge and principals developed through ASHRAE Research.

The ASHRAE Handbook is constantly evolving to address these new challenges, fueled by the knowledge and principals developed through ASHRAE Research. As the focus of the industry has evolved from home refrigeration and food safety to improved indoor air quality to sustainability and energy efficiency, this four-volume series continues to be the cornerstone in every ASHRAE Member's career.

The power behind ASHRAE Research and the four volume Handbook comes directly from YOU: your financial support is the driving force behind every research project conducted worldwide; your financial investment is an investment in the future of the HVAC&R industry; your donation to ASHRAE Research fills the more than 3,600 Handbook pages.

Have you ever thought what the Handbook would look like without your support? Here's a small glimpse.

CHAPTER 18
NONRESIDENTIAL COOLING AND HEATING
LOAD CALCULATIONS

<i>Cooling Load Calculation Principles</i>	18.1	<i>Radiant Time-Series (RTS) Method</i>	18.20
<i>Internal Heat Gains</i>	18.3	<i>Heating Load Calculations</i>	18.28
<i>Infiltration and Moisture Migration</i>	18.12	<i>System Heating and Cooling Load Effects</i>	18.32
<i>Heat Gains</i>	18.14	<i>Example Cooling and Heating Load Calculations</i>	18.35
<i>Fenestration Heat Gain</i>	18.14	<i>Previous Cooling Load Calculation Methods</i>	18.40
<i>Heat Balance Method</i>	18.14	<i>Building Example Drawings</i>	18.52

HEATING and cooling load calculations are the basis for...
 These calculations affect the...
 Heating and cooling load calculations are...
 Simply put, heating and cooling loads are the...
 Heating and air conditioning systems are...
 Peak design heating and cooling load calculations, which are this chapter's focus, seek to determine the...
 This chapter discusses...
COOLING LOAD CALCULATION PRINCIPLES
 Cooling loads result from many...
 Building occupants or...
 External...
 Internal...
 Infiltration...
 System...
TERMINOLOGY
 The variables affecting cooling load calculations are...

Many cooling load components...
 Because these cyclic changes in...
 For a building or zone, a zoned system (i.e., one serving several independent areas, each with its own temperature control) needs to...
 However, if...
 At some times of...
Heat Flow Rates
 In air-conditioning design, the following four related heat flow rates, each of which varies with time, must be...
Space Heat Gain
 Entry modes include...
 Sensible heat...
 Latent heat...
 Radiant Heat Gain...
 When these surfaces and objects become warmer than the surrounding air, some of their heat transfers to the air by convection. The comparative heat storage capacity of these surfaces and objects...

Every one dollar donated to research is one dollar to research – We, the Anthracite Chapter of ASHRAE, invite you to become involved in our chapter activities. We realize your contribution may only be donating to research projects; but, your donation earns recognition throughout the year on our website and during our Chapter Meetings. We can never say Thank You enough!

You can support via online, phone, or at our Chapter Meetings!

<https://xp20.ashrae.org/secure/researchpromotion/rp.html>

(484) 743-6682

NEWS and Notes

Our RP Campaign for this year is starting to gain traction thanks to the efforts of our RP Chair, Amanda Hall



Our Fall Bowling Event, organized by our YEA and Student Activities Chair Joe Bradley, and co-sponsored by ASHE and PSPE, was held on November 17th. It was a great turnout with almost 30 in attendance, and they enjoyed plenty of food and beverages along with fun times bowling. Thanks Joe for all your efforts!



Job Openings:



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Inside Application/Sales/Technical Support Engineer

Associated Steam, Air & Hot Water is a manufactures representative covering Delaware, Maryland, South Jersey, Pennsylvania, Washington DC and northern West Virginia.

We are hiring for Inside Application/Sales/Technical Support Engineer positions to maintain our growth and meet the needs of our customer base.

Candidate must have engineering/mechanical technical background.

Must be able to read and interpret mechanical, plumbing and control drawings and coordinate with written specifications.

Detail oriented.

Comfortable interacting with customers and providing customer support service.

Job functions include but not limited to equipment selection, taking-off projects, quote preparation, providing customer technical support to our customers including engineers, contractors and end users., interfacing with sales team and manufacturers as required.

Communicate effectively with other team members to ensure excellent customer service, technical assistance, and support for Associated' s outside sales team.

Provide reports on projects as required.

Attend training courses as required, internally and at factories as scheduled.

Make field visit with outside team for educational purposes to gain knowledge of systems we provide solutions for efficiency and energy savings. Perform and/or assist in equipment start up.

Visit our website for additional information on the manufacturers we represent. www.associatedsteam.com

We offer competitive compensation packages, in house training, field experience.

Resumes can be sent to Dave Rainsford at drainsford@associatedsteam.com



Building Dynamics Job Posting: Controls Specialist

Building Dynamics, LLC is a Mechanical Engineering firm specializing in HVAC, indoor air quality and design/sustainability/support for all aspects during the lifecycle of a building. We are seeking a qualified applicant to fulfill the role of a **Building Controls Specialist**. This position is open to both engineers and controls technicians that meet the qualifications outlined below.

Minimum Requirements

- Minimum four years' experience in the design, installation, programming, and commissioning of commercial building heating, ventilating, and air conditioning (HVAC) direct digital controls (DDC) systems.
- A Professional Engineer's license or a Bachelor of Science degree in mechanical engineering, from an Accreditation Board for Engineering and Technology (ABET) accredited engineering college or university is preferred. Controls Technicians with a strong knowledge of HVAC systems will also be considered.
- Niagara AX/N4 TCP certification. Experience in multiple other Building Automation System vendors is strongly preferred.
- Knowledge of various types of HVAC systems, their operation and energy conservation.
- An understanding of HVAC control sequences of operation, including programming, troubleshooting, and commissioning.
- Knowledge about meters, their setup, and troubleshooting, as applied to HVAC systems including water meters (all types), Btu meters, electric meters, PUE meters, gas meters, steam meters, meter integration into a Building Automation Systems (BAS), meter programming, test meter calibration, and manipulation of meter data for use by Building managers and facility operators.
- Ability to learn new skillsets, critically analyze problems, and work with team members to develop solutions to complex, technical engineering problems in buildings with regards to HVAC or indoor air quality deficiencies.

Position description

The candidate will be working with Building Dynamics personnel to assist with a variety of contracts and customers. The majority of the time (~80%) will be spent working with a Federal Agency assisting in a technical support role in the Washington DC area. There is a possibility for telework when the work does not require on-site access to the building. The remainder of the time will be spent working on other projects for a variety of governmental and commercial clients on a diverse array of tasks. The candidate will be required to successfully complete the following tasks:

- Designing, programming, commissioning, and troubleshooting commercial building heating, ventilating, and air conditioning (HVAC) direct digital controls (DDC) systems.
- Providing technical advice about meters, their setup, and troubleshooting (as applied to HVAC systems) including electric meters, water meters, BTU meters, gas meters, and steam meters.
- Providing technical advice about how to integrate different Building Automation Systems (BAS), both with respect to operations, as well as data trending for system analysis and sustainability.



Understanding of various communication protocols and facilitating their interoperability is necessary.


- Developing policies for managing the installation, operation, and maintenance of facilities-related controls, meters, and BAS systems at a high level.
- Developing procurement language for the purchase and installation of facilities-related controls, meters, and BAS systems.
- Evaluating meter data and developing associated Energy Conservation Measures (ECMs) to improve facility operation and energy efficiency.
- Serving as a subject matter expert to facilities managers with respect to the efficient and secure installation, operation and maintenance of BAS systems.
- Reviewing proposed new BAS systems and evaluating .
- Periodically assessing installed systems to document compliance with the latest BAS and ICS cyber security countermeasures.
- Develop new sequences of operations for equipment and generate AutoCAD drawings.
- Generate and review specifications sections related to HVAC DDC controls.

How to Apply:

- Please send a resume as well as brief summary of relevant controls experience to admin@building-dynamics.com.
- For any questions prior to applying, please reach out to Reid Lucas
 - rlucas@building-dynamics.com
 - (443) 534-2951

NOTE: If anyone would like to submit something to be included in our "News and Notes" you can send it to me at c134@ashrae.net

Newsletter Sponsors - THANK YOU TO ALL WHO SUPPORTED THE CHAPTER!



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I hope all who have sponsored our Chapters newsletter last year will continue with your support. Newsletter sponsorship is still \$50 for the year, and your check can be sent to Michael Mecchi, Treasurer, or given to any of our Officers at the next meeting.

If anyone else would like to sponsor the newsletter, or know of someone who might, please contact myself, or any of the Officers.

The display of business cards in the NEWS recognizes the financial support of the Chapter by the individual or business and does not constitute an endorsement or recommendation by ASHRAE or the Anthracite Chapter.

Anthracite Chapter Past Presidents

2021-22 Michael Mecchi	2010-11 Tom Swartwood	1999-00 John Durdan	1988-89 Bud Reilly
2020-21 Michael Mecchi	2009-10 Brian Flynn	1998-99 Matthew Martin	1987-88 Ray Suhocki
2019-20 Marjorie Gelso	2008-09 Eric Zanolini	1997-98 Dean Butler	1986-87 Jerry Peznowski
2018-19 Eric Turner	2007-08 Walt Janus	1996-97 Charlie Smith	1985-86 Lee Garing
2017-18 Eric Turner	2006-07 John Havenstrite	1995-96 Chuck Swinderman	1984-85 Spence Martin
2016-17 Alyssa Procida	2005-06 Manish Patel	1994-95 John Walker	1983-84 Donald Brandt
2015-16 Rich Karns	2004-05 A.J. Lello	1993-94 Dennis McGraw	1982-83 Rich Santee
2014-15 Matt Archey	2003-04 Dennis Gochoel	1992-93 Scott Harford	1981-82 Bob Mugford
2013-14 Matt Archey	2002-03 Phil Latinski	1991-92 Dan Mello	1980-81 Kerry Freeman
2012-13 Tracey Jumper	2001-02 Mike Moran	1990-91 Mark Hagen	
2011-12 A.J. Speicher	2000-01 Dennis Gochoel	1989-90 Paul Dreater	

ANTHRACITE CHAPTER MEETING & EVENTS 2022-23

Date	Theme	Program	Speaker
Sept. 20	Membership/ Bring A Buddy	Flow and BTU Metering	Dennis DeMizio
Oct. 18		Update on Codes related to Kitchen Hood Design	Eric Buckman
Nov. 15	Research Promotion Donor Recognition	Pool Dehumidification	Bill Chase
December		No Meeting	
Jan. 17	Research Promotion	Strategic Electrification, Decarbonization and the Role of Heat Pumps	Phil Latinski Melissa Provenzano
Feb. 4 - Feb. 8	Winter Conference AHR Expo	2023 ASHRAE Winter Conference & AHR Expo, Atlanta, GA	
Feb. 21	Engineer's Week Joint Mtg w/PSPE	TBD	Tim Wentz
Mar. 21	Nominating Night Joint Mtg w/SMACNA	TBD	TBD
Apr. 18	Students/Membership Promotion	TBD	TBD
May. 23	ASHRAE Webcast Past Presidents	TBD	TBD
June 20?	Fun & Fellowship	Mark A. Hagan, PE Memorial Golf Outing	
	Fun & R.P.		
Aug. 20-22	CRC	2023 Region III CRC, Baltimore, MD	

* ASHRAE Distinguished Lecturer

ASHRAE MISSION

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

ASHRAE VISION

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.

The Anthracite Chapter NEWS

Ron Sibulsky, Editor c/o 1331 Lincoln Street, Catasauqua, PA