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#### May Meeting

Tuesday May 9, 2023

#### Main Meeting Topic:

Building Performance Simulation

*Dru Crawley - Director*

*Bentley Systems, Inc.*

*Roselin Osser - Senior Project Engineer*

*AKF Group*

#### Tech Session Topic:

Mass Save Electrification Programs

#### Where:

Embassy Suites by Hilton Waltham  
550 Winter Street  
Waltham, MA 02451

#### Time:

5:00-5:30 Networking  
5:30-6:30 Tech Session  
6:30-7:00 Dinner  
7:00-8:00 Main Meeting

#### Cost:

Members—\$50  
Non Members—\$60  
ASHRAE Student Members with RSVP—Free



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## BOSTON CHAPTER OFFICERS 2022-2023



## President's Message

Dear ASHRAE Boston Chapter Members,

As we approach the end of spring and the beginning of summer, I hope you are all doing well and staying safe. Our April event was a success! Anthony Shank gave a fantastic presentation on Cooling Tower Design Considerations and Piping Practices. We were able to learn about basic operational principles for saving energy, as well as best practices for selecting and sizing pipe connections and equalizers, sound considerations with cooling towers, standard grillage and the effects of vibration isolator placement, and motors and options for fan drive technologies. Thank you to everyone who joined us for this event. Additionally, we had a great turnout for our earth day event at the Charles river, and I hope that those of you who were able to participate found it both enjoyable and rewarding.

For our May event, we are excited to have Drury B. Crawley, Ph. D. (ASHRAE Distinguished Lecturer) as our speaker for Building Performance Simulation: What's in the Black Box. Everyone has heard of energy modeling, but how does it work, and how can you put it to use on your building? Dru will be joined by Rosie Osser, an energy modeling practitioner at AKF Group, for commentary about how modeling is used in greater Boston. Dr. Crawley is an expert in building performance, zero-energy buildings, decarbonization, digital twins, smart cities, sustainability, and resilience. We are thrilled to have him join us for this event. During our May tech session, we will feature presentations from Eversource and National Grid on the Mass Save Electrification Programs. These representatives will offer insight into the latest electrification offerings and provide guidance on the most effective ways to engage with them on your projects.

Finally, I want to remind everyone that our 57th Annual Golf Outing is sold out. Thank you to all our members who registered for this event. I hope you are all looking forward to a great day on the course.

I encourage you all to stay involved and engaged with our chapter, whether it's attending a virtual meeting, volunteering for a committee, or simply connecting with your fellow members. Together, we can continue to grow and strengthen our community and make a lasting impact in the world of HVAC&R.

Thank you all for your continued support of ASHRAE Boston, and I look forward to seeing you at our upcoming events.

Best regards,

Vineet Nair

ASHRAE Boston Chapter President 2022-2023



President  
Vineet Nair  
CRB

### Presidential Award of Excellence



#### Boston Chapter - 2022-2023

Chapter Members	Membership Promotion Points (1600)	Student Activities Points (800)	Research Promotion Points (1050)	History Points (300)	Chapter Operations Points (1200)	Chapter Technology Transfer Points (1050)	Government Affairs Points (1000)	Electronic Communications Points (700)	YEA Points (900)
<u>1029</u>	<u>1965</u>	<u>840</u>	<u>1370</u>	<u>445</u>	<u>1995</u>	<u>1200</u>	<u>600</u>	<u>1145</u>	<u>1375</u>



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**Download an "Executive Summary" of 2021 survey results today.**

## May Meeting

### Tech Session: MASS SAVE ELECTRIFICATION PROGRAMS

Electrification is still a relatively new offering for the Mass Save collaboration of utilities. Support services and the incentives vary somewhat from the traditional energy efficiency programs we have offered for decades. In many cases, our electrification retrofit incentives are more generous than for traditional efficiency measures. National Grid and Eversource representatives will provide you the latest on these electrification offerings, including the easiest way to engage us in your projects.

#### Presenters

**Ryan Willingham**  
Senior Energy Engineer Efficiency  
Consultant  
Eversource

**Fran Boucher**  
Technical Advisor  
Eversource

**Kevin Silveria**  
Senior Energy Engineer  
National Grid

### Main Presentation: BUILDING PERFORMANCE SIMULATION

ASHRAE Distinguished Lecturer Dru Crawley will present on Building Performance Simulation: What’s in the Black Box. Everyone has heard of energy modeling, but how does it work, and how can you put it to use on your building? Dru will be joined by Rosie Osser, an energy modeling practitioner at AKF Group, for commentary about how modeling is used in greater Boston.

#### Presenter: Dru Crawley

Dru Crawley is Bentley Fellow and Director, Building Performance Research focusing on building performance, zero-energy Buildings, decarbonization, digital twins, smart cities, sustainability, and resilience. Prior to being elevated to Bentley Fellow in 2014, he led development of Bentley’s building performance software suite for four years. Before joining Bentley in 2010, Dr. Crawley developed and managed EnergyPlus and the USDOE’s Commercial Buildings Initiative (now Better Buildings Initiative and Alliances) promoting creation of net-zero-energy buildings.

With more than 40 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in engineering software development, government research and standards development organizations, as well as building design and consulting companies. He received his PhD in Mechanical Engineering from University of Strathclyde in Glasgow, Scotland on the topic of building simulation as a policy tool, and a Bachelor of Architecture from University of Tennessee, and is a registered architect.



**Dru Crawley**  
Director  
Bentley Systems, Inc.



**Roselin Osser**  
PE, BEMP, LEED AP  
Senior Project Engineer  
AKF Group

#### Presenter: Roselin Osser

Roselin Osser is an energy engineer specializing in building performance. She has managed a variety of sustainability consulting projects including complex science laboratories, archival spaces with unique requirements, multifamily buildings, schools, and offices. With her proficiency in eQuest energy modeling and the LEED rating system, she helps project teams reduce environmental impact through high performance design. Roselin is a licensed Professional Engineer (PE), ASHRAE Building Energy Modeling Professional (BEMP), and a LEED Accredited Professional. She holds a Master of Science in Building Technology from Massachusetts Institute of Technology and a Bachelor of Science in Mechanical Engineering from Tufts University. Roselin frequently presents educational content to clients and AEC professionals on topics including the use of energy modeling in the design process, high performance laboratory design, and various energy codes and policies, most recently Boston’s new BERDO 2.0 legislation.

## Historical News By: Eric Edman - BR+A

There are no major history related updates to share nationally that have been shared with our group to report upon. Historically, the winter meeting past had the third highest attendance on record with AHR/ASHRAE so if you went you can attest the place was packed. A healthy sign of HVAC, and our industry.

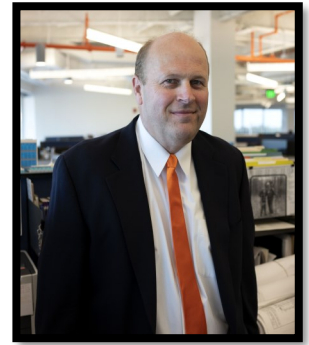
Well, we certainly look forward to casting off the overcoats, putting away that snowblower and forgetting all about winter -and that dirty word that begins with an "S". Note, we never mentioned that white stuff by name. We do try to keep these monthly articles properly clean.

As we ready ourselves for the coming summer off, we would like to suggest to any of you who have had thoughts about submitting an article to do so. We are happy to help and many of the articles we write about come from all of you directly and indirectly. Get off your chair and contribute something. Consider it a challenge.

In other news, I am using this feature piece to solicit for a new historian. I will complete this, and next season (23-24) and step down as your historian. That opens the way for a new person starting in Sept of 2024 (24-25 season). I do not plan to retire if you were wondering and did not hit the lottery to hasten the process of retirement. I do hope to continue the monthly special features many have enjoyed.

See you all at our next meeting.

Eric  
c001his@ashrae.org



Eric Edman  
Historian

# Welcome New ASHRAE Boston Members

We welcome those that joined our chapter this past month!

- Nile Keiller
- Mark Raffety
- Liam George
- Ethan Sanchez
- Brad Miele
- Sissi Liu
- Timothy Hird-Devlin
- Brian Callan
- Kellie Sacco
- Dhillan Maxwell-Coimbra
- Ryan lima
- Mathew Zielinski
- Samuel Toerne



## REMINDER! BOSTON ASHRAE GOLF OUTING

Monday May 15th—12:00 PM  
DINNER TICKETS STILL AVAILABLE!

### Schedule

- 12 Noon - Registration & Box Lunch
- 1:30 PM - Shotgun start
- 6:30 PM - Reception dinner in the pavilion tent

# ASHRAE / Earth Day 2023

Hello fellow members: A note of thanks to the organizers for our first annual ASHRAE/Earth Day event. Our group was but one of several picking up trash along the side of the Charles River near the community rowing center on the Newton/Boston line. We hope to grow from this and make next year bigger and better.

[Mother Earth thanks you too!](#)



## Battle Rankings

**Membership Battle Update - These employers have had the most new members join 07/01/22-05/01/23.**

**THE BATTLE HAS ENDED- SEE FINAL RANKINGS BELOW!**

**MIT** Massachusetts Institute of Technology

**MASSACHUSETTS MARITIME ACADEMY**

**WSP**

**AHA** CONSULTING ENGINEERS

**CONSIGLI** Est. 1905

**ZENERGY** BUILDING TECHNOLOGIES

**T-FIRST**

**T-SECOND**

**IMPORTANT ANNOUNCEMENT:**  
On May 1st (last day of Battle) we had a tie for first. But there can only be one winner! Randomly chosen... **WSP is the winner!** WSP will receive (2) Red Sox tickets, (1) FREE summer ASHRAE conference registration, and recognition at the May meeting. Congratulations WSP!

**ASHRAE 2023 Annual Conference**



## ASHRAE Honors and Awards

Did you know that most ASHRAE members meet the criteria for an award either on the local, regional or society level. Each month I will be highlighting honors and awards that you the member can pursue. Speaking of member, the main criteria for any awards is that you are a full member, so if you have never upgraded from an associate member to full member that is the first step that will be needed to be done. It is a form you can get online to upgrade your membership, there is no financial impact and will entitle you to other full membership perks.

Take a look at the presentation for an overview of what is available for honors and awards . **Click the slide below!**

Any Questions please reach out to me.

Bob Persechini

[bob.persechini@nv5.com](mailto:bob.persechini@nv5.com)

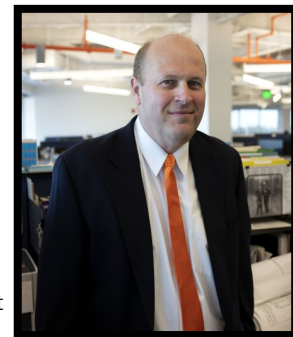
**ASHRAE Honors and Awards Committee**  
Honors and Awards Program

## History Special Feature by Eric Edman

February and March passed by unnoticed. Nobody asked me why we didn't have a special feature on Black History or Women's History. Well, I deliberately waited to make us focus on the significance of those two months. Black History Month (1) is connected to Abraham Lincoln and Frederick Douglass, who celebrated birthdays in February. Women's History Month (2) got its start in California and became nationally recognized by President Carter in 1980. One could further research the beginnings of these important historical movements.

You may recall that last year in this history special feature space (Feb '22), we had a short story about the black woman (Ms. Alice Parker) who had a major contribution to the development of the gas furnace as we know it today. Here was a woman - and a black woman - who advanced the arts and science of HVAC!! I was hopeful that one of our members would give me a great new story, but the months slipped by. Here we are in May, and nobody noticed.

I had to come up with my own story, and this one came as a bit of a surprise. During the dark years of Covid, our family was visiting our eldest daughter at Salisbury U-Coastal Maryland. We had decided to go apple picking as an outdoor family event that was still open when all the world seemed closed. How little did we know that the road from here to there was flooded out - not just a little underwater, but a lot underwater. (Minivans do not double as submarines, as my wife will tell you.) We followed a bunch of detour signs and ended up very lost. How anyone gets lost in 2021 may shock you, but not everywhere has cellular coverage, and who has printed maps when we have Waze and Google Maps? (Well, I do, but I wasn't in my own truck.) As it turned out, there was a very kind person who told us that to get around all this flooding would be a LONG journey around the marshes. We gave up apple picking.



Eric Edman  
Historian



Road marker in Church Creek, MD

Looking for alternatives, we stumbled upon - quite literally - the Harriet Tubman Underground Railroad Museum. In the middle of nowhere, it was on a bit of high ground. It was dark and looked like it was closed, but it was open, uncrowded, and in we went.

Most of us had read stories of the Underground Railroad and Harriet Tubman. I will admit that I had forgotten most of it from grade school history. I came out of the museum with a whole new appreciation for the contributions to our nation, our history, and our freedoms from Black people, women, and - a double whammy - Black women. This woman was incredible. Nurse, scout, spy, conductor, and wife all in one.

If any of you ever think you've had a bad day...think again. Born into slavery and beaten, she escaped at an early age. Harriet went back and forth on the Underground Railroad a total of 14 times. She was a conductor who claimed she never went off the tracks and never lost a passenger. She guided over 300 people to freedom from slavery. Yes indeed, time and again - back for more people after making it to safety every time. Think of the Energizer Bunny here, folks. God bless you, Harriet.

Certainly, one of those who I consider a true patriot (ironically today is Patriots Day as I write) and clearly a woman of great moral character. The Moses of her people. What we also learned was that Harriet Tubman worked alongside Susan B. Anthony. The two were unstoppable powerhouses for the Women's suffrage movement. I can understand why Susan was honored to have her picture on a coin. To think that this was just over a hundred years ago is odd to me in 2023. Some days I really wish I could go back in time to meet some of these people, to look them in the eye and understand what drove them. To think about the contributions of women, Blacks, and Black women to our nation's history.

I do realize that this particular special feature has little bearing on ASHRAE, on Boston, or on HVAC in and of itself. Does it have to? The idea was to make you think about history and who made it. On occasion, I think of that Chinese man who stood in front of a tank in Tiananmen Square to make a worldwide statement through a single photograph. I would like to tip my hat to all people who stand to right a wrong, no matter their sex or skin color. So, next year, appreciate the significance of the months of February and March. Our roots all share common soil.

We certainly look forward to seeing you again at any of our monthly meetings. Do not be a stranger; your chapter needs your support. Get out of your office and join in the fun.

We liked you virtually, and we like you more in person. Until the next meeting, we wish you well in 2023.

Eric

*(1) Feb 1, 1970. Black students and faculty at Kent State Univ in Ohio celebrated the first Black History month. The movement started in 1926 by historian Dr. Carter Woodson.*

*(2) March 8, 1913. Women's Day became officially celebrated. March 11, 1911 marked the beginnings- to bring attention to the situation of women in the workplace.*

Harriet Tubman in the 1890's



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# EVENTS CALENDAR

Date	Event	Location	Event Information
<del>Sept. 13, 2022</del>	<del>September Meeting</del>	<del>Doubletree Boston-Cambridge</del>	<del>Topic: COMPRESSOR TECHNOLOGY Presenter: Mark W. Fly, PE</del>
<del>Oct. 11, 2022</del>	<del>October Meeting</del>	<del>Embassy Suites Waltham</del>	<del>Topic: DECARBONIZATION OF EXISTING BUILDINGS Presenter: Joe Dussault &amp; Jesse Stallions</del>
<del>Nov. 2, 2022</del>	<del>Product Show</del>	<del>Marriott Quincy</del>	<del>Details on Page 4</del>
<del>Dec. 7, 2022</del>	<del>YEA Social</del>	<del>Night Shift Brew</del>	<del><a href="#">Details here.</a></del>
<del>Dec. 13, 2022</del>	<del>December Meeting</del>	<del>Doubletree Boston / Cambridge</del>	<del>Topic: HEAT EXCHANGERS Presenter: Tracey Putnam</del>
<del>Jan. 10, 2023</del>	<del>January Meeting</del>	<del>Embassy Suites Waltham</del>	<del>Topic: LIQUID SUBCOOLING Presenter: Peter Fung</del>
<del>Feb. 15, 2023</del>	<del>February Meeting</del>	<del>Doubletree Boston / Cambridge</del>	<del>Topic: DEI &amp; ASHRAE: DOES IT REALLY MATTER? Presenter: Devin Abellon, P.E.</del>
<del>Feb. 23, 2023</del>	<del>YEA/DiA Joint Social</del>	<del>Flight Club Seaport</del>	<del><a href="#">Details here.</a></del>
<del>Mar. 28, 2023</del>	<del>March Meeting</del>	<del>Embassy Suites Waltham</del>	<del>Topic: GEOTHERMAL SYSTEMS Presenter: Andrew Kozak, P.E.</del>
<del>Apr. 2023</del>	<del>YEA Event</del>	<del>TBD</del>	<del>Details to follow.</del>
<del>Apr. 11, 2023</del>	<del>April Meeting</del>	<del>Doubletree Boston / Cambridge</del>	<del>Topic: COOLING TOWERS Presenter: Anthony Shank</del>
<del>Apr. 22, 2023</del>	<del>Earth Day Cleanup</del>	<del>Charles River</del>	
May 9, 2023	May Meeting	Embassy Suites Waltham	Topic: ENERGY MODELING Presenter: Drew Crawley
May 15, 2023	ASHRAE Golf Outing	Granite Links	<a href="#">Details here.</a>
June 2023	YEA Event	TBD	Details to follow.

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\*The calendar is subject to changes, please see the [ASHRAE Boston Chapter website](#) for the most up to date information!

Boston Monthly Meetings	ASHRAE Society— <a href="#">Complete List</a>
Boston Chapter Special Events	YEA Events
DiA Events	Other Societies Events

# BOSTON CHAPTER OFFICERS



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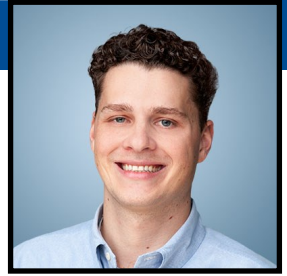
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Professional Development Chair Needed!

Positions are open!  
Please contact Chapter President at c001@ashrae.net if you are interested!