



FEBRUARY - VOLUME LVII ISSUE 05

THERMOGRAM

FACILITY TOUR: MICA FOX BUILDING / BRASS TAP
WEBINAR: A2L REFRIGERANTS AND VRF

Thursday, February 6th, 2025

Virtual Lunch Meeting: 12:00-1:30 PM

Facility Tour: 5:30-8:30

Registration for the tech session only is free for members, \$10 for non-members. Tour is \$35 for all guests and includes the tech session.

Tech Session: A2L Refrigerants & VRF

Speaker: Trey Wilder, Sr. Product Support Engineer, LG

Named for their ASHRAE safety classification, A2L refrigerants are characterized by mild flammability, low toxicity, and low global warming potential (GWP). They include hydrofluoroolefins (HFOs) and HFO blends. A2L refrigerants offer similar operating characteristics to legacy refrigerants, a safer profile than ammonia and hydrocarbon refrigerants, and are more energy efficient than R-410A and transcritical CO₂ systems. As the world confronts the challenge of climate change, A2Ls have emerged as a replacement for older, high-impact refrigerants like HFCs and HCFCs in air conditioning and commercial refrigeration systems. A2Ls are essential for helping businesses meet the global objectives outlined in the Montreal Protocol and the Kigali Amendment, regional regulations like the U.S. AIM Act and Canada's ODSHAR, as well as for achieving the objectives of the EU Green Deal.

Facility Tour: MICA - Fox Building

The Fox Building is a renovation project that was completed in 2019; the HVAC system consisted of 180 tons of VRF equipment and two packaged DOAS units. A majority of the space is open ceiling which mean much of the VRF system components and piping is exposed. The building houses classrooms, administrative offices and common cafes areas for the college. Tours will depart on foot from The Brass Tap.

2023-2024 Chapter Leadership Roster

Board of Governors

	President Kevin Lindemann	president@ashrae-balto.org, P: 410.790.7854 Chesapeake Systems		Governor/Asst. Secretary Luis Belisario	asstsecretary@ashrae-balto.org, P: 410.807.8279 Prime AE
	President-Elect Kaylee Haupt	vp@ashrae-balto.org, P: 443.789.0188 Carroll County		Governor Mike Poe	gov2@ashrae-balto.org, P: 410.302.1280 Legacy Engineering
	Treasurer Simona Georgiev	treasurer@ashrae-balto.org, P: 410.316.2263 JMT		Senior Advisor Tyler Lee	senioradvisor@ashrae-balt.org, P: 301-440-2218 Chesapeake Systems
	Secretary Rob Broczkowski	secretary@ashrae-balto.org, P: 571.318.7310 ETC		Former President Terry Schroeder	pastpresident@ashrae-balto.org, P: 443.224.1594 WRA

Committee Chairs

Attendance/Recpt. Co-Chair: Vikas Kiran, PrimeAE reservations@ashrae-balto.org	Government Affairs: Tyler Brown, ATS gga@ashrae-balto.org	Research Promotion Co-Chair: Joe Petty, ATS research@ashrae-balto.org
Attendance/Recpt. Co-Chair: Tim Scheck, C-W reservations@ashrae-balto.org	Golf Outing: Tyler Lee, Chesapeake Systems golf@ashrae-balto.org	Scholarships: Hailey Brennan, Spectrum Energy scholarship@ashrae-balto.org
Christmas Party: Wade Myers, JMT christmas@ashrae-balto.org	Historian: Abe Undieh Chesapeake Systems historian@ashrae-balto.org	Student Activities: Abe Undieh Chesapeake Systems studentacts@ashrae-balto.org
Chapter Programs: Kaylee Haupt, Carroll County programs@ashrae-balto.org	Historian Co-Chair: Kevin Lindemann Chesapeake Systems historian@ashrae-balto.org	Thermogram: Kevin Lindemann Chesapeake Systems newsletter@ashrae-balto.org
CTA (Tech Awards): Kaylee Haupt, Carroll County cta@ashrae-balto.org	Membership: Ben Joel, WSP membership@ashrae-balto.org	Young Engineers: Co-Chair: Nancy Neely, JCI yea@ashrae-balto.org
Diversity in ASHRAE Co-Chair: Patrick Harrilal, JMT dia@ashrae-balto.org	Membership Co-Chair: TBD membership@ashrae-balto.org	Young Engineers Co-Chair: Elyas Khan, JCI yea@ashrae-balto.org
DIA Co-Chair: Ashleigh Newman, The Morin Company dia@ashrae-balto.org	Refrigeration: Jon Olmstead, Hobbs & Associates refrigeration@ashrae-balto.org	Web Technicians: Kevin Lindemann Chesapeake Systems ashtech@ashrae-balto.org
Engineers Week: Nick Spicher, Chesapeake Systems engweek@ashrae-balto.org	Research Promotion: Dave Handzo, UEP research@ashrae-balto.org	Women in ASHRAE: Nicole Harshbarger, Schneider Electric wia@ashrae-balto.org

PRESIDENT'S PEN

Thanks to all of our members who were able to join us for our January meetings. We have a busy February schedule ahead; please make these events are marked on your calendars!

First up, the Philadelphia Chapter is hosting the region for a webinar on Wednesday, February 5th. Matt Roberts, PhD, will be presenting on the environmental impacts of MEP systems.

For the Baltimore Chapter, February means it's time for our annual refrigeration tour! Our chapter meetings will be focused on the refrigerant phase down, specific to VRF applications. The facility staff at MICA is welcoming us to tour the recently renovated Fox Building. Tours will depart on foot from the Brass Tap.

Wrapping things up, we will have another YEA event on February 26th. This will be a bowling night at Mustang Alley. Space is limited, so make sure you contact Nancy to reserve your spot.

A handwritten signature in blue ink, appearing to read "Kevin Lindemann".

Kevin Lindemann
ASHRAE Baltimore President



**2025 ASHRAE
WINTER CONFERENCE**

ORLANDO, FEB 8-12 | AHR EXPO, FEB 10-12



MEETING SCHEDULE

September 5th, 2024 September 11, 2024	Tech: Hydronic Balancing Main: Tiki Lee's Social
October 3, 2024 @ESB	Tech: Energy in Buildings - An HVAC Perspective for the 21st Century (ASHRAE DL) Main: Maintaining High Performance Buildings through Dynamic Optimization
November 14, 2024 @Union Draft Brewing	Tech: TBD Main: Humidification and ASHRAE Standard 170
December 6, 2024 @Timonium Fairgrounds	74rd Annual Christmas Party!
January 9, 2025 @ESB	Tech: Battery Energy Storage Systems Main: Ethics
February 6th, 2025 The Brass Pap & MICA	Tech: A2L Refrigerants Main: MICA Fox Building
March 6, 2025 @ESB	Tech: Maryland Clean Heat Rules Main: Elevator Fire & Safety Codes
April 3, 2025 @ESB	Tech: Motor Efficiency Standards Main: BEPS Panel Discussion
May 1, 2025 @ESB	Tech: TBD Main: TBD

2024-2025 SPONSORS

RAVENS SPONSORS



ORIOLES SPONSORS



BLAST SPONSORS



YEA
Bowling
NIGHT

FEBRUARY 26TH

5-7PM

MUSTANG
ALLEY

SPOTS ARE LIMITED!
MAKE SURE TO REGISTER ON THE GOOGLE DOC
(CLICK HERE)

SNACKS & DRINKS

1300 Bank Street, Baltimore, MD
21231

CERTIFICATION DISCOUNT

From February 1 through March 31, applicants may use the discount code **NEWYEAR2025** to receive a 25% discount on application for any of ASHRAE's seven (7) building design or building performance certifications.

Here's how the discount works:

- Apply anytime Feb. 1 – March 31 using the Discount Code: **NEWYEAR2025**
- Take your certification exam at any of ASHRAE's new 1,000+ test center locations worldwide



NEW!





ASHRAE TECHNOLOGY AWARDS

GET RECOGNIZED!

Have an innovative project that has been in operation for 1 year? Apply for the Chapter Technology Award!

Awards are given in 6 categories:

- Commercial Buildings
- Institutional Buildings
- Health Care Facilities
- Industrial Facilities/Processes
- Public Assembly
- Residential

For additional information
and application visit



www.ashrae-balto.org/CTA

2024-2025 Scholarship

**Multiple Winners:
\$750-\$2500**



**Applications Accepted
Until - February 28, 2025**



**Scan here to learn
more and apply today!**

Questions? Email Us!
scholarship@ashrae-balto.org



ashrae-balto.org/scholarship

NOT A MEMBER? BECOME ONE TODAY!



ASHRAE Membership

ashrae.org/benefits

Five Benefit Options Available.

Full Members and Associates can now select **1** of the following options:

<p>eLearning Course</p>  <p>150+ to choose from</p>	<p>ASHRAE Standard</p>  <p>100+ to choose from</p>	<p>ASHRAE Handbook</p>  <p>PDF version of the most recent</p>	<p>Handbook Online</p>  <p>4 most recent</p>	<p>ASHRAE Certification Exam Study Guide</p>  <p>3 to choose from</p>
---	--	--	--	---

First Year New Members automatically get:

<p>1 Free Registration</p>  <p>to Winter or Annual Conference</p>	<p>12 Months FREE</p>  <p>Handbook Online</p>
---	---

Additional Member Benefits

<p>12 month subscription to ASHRAE Journal</p> 	<p>25% discount On 400 publications in the Bookstore</p> 
<p>2000+ free resources for members in the ASHRAE Technology Portal</p>	

50,000+
Members



190+ Chapters **16** Regions across the world

