



JANUARY - VOLUME LVII ISSUE 03

THERMOGRAM

MAIN MEETING: YOUR ETHICS TOOLBOX
TECH SESSION: BATTERY ENERGY STORAGE SYSTEMS

Thursday, January 9th, 2025

Virtual Lunch Meeting:

Tech Session (GoToMeeting): 12:00-1:30 PM

Main Dinner Meeting:

Networking Hour (ESB): 5:00-6:30 PM

Dinner (ESB): 6:30-7:00 PM

Main Speaker: 7:00-8:15 PM

Tech Session: Battery Energy Storage Systems and Fire Protection Design

Speaker: Karli Steranka, Sr. Staff Engineer, Fire & Risk Alliance

This presentation examines the critical aspects of fire protection design for indoor Battery Energy Storage Systems (BESS), with a particular focus on lithium-ion battery hazards. The session will discuss the unique fire risks associated with lithium-ion batteries and review relevant codes and standards for fire protection in indoor BESS installations. A detailed case study of a 5MW indoor BESS installation will be presented, showcasing the original fire protection features, the occurrence of a failure event, and its subsequent consequences. This presentation will provide high-level insights into the unique hazards associated with BESS installations and outline essential fire protection design principles, offering a framework for effectively addressing these risks in real-world applications.

Main meeting: Your Ethics Toolbox: Building a Framework for Ethical Decision-Making, with Case Studies.

Speaker: Jennifer Leach, PE, LEED AP, Associate Principal, BR+A

Making an informed, responsible ethical decision is not as easy as it may seem. This is an interactive session where participants hear about an ethical violation report to the National Society of Professional Engineers. They then break up into small groups and discuss the ethics case, sharing their decisions with the larger group. The actual NSPE decisions are then provided. Test your ethics IQ against an actual case decided by a board of your peers and obtain ethics continuing education credits in the process.

2023-2024 Chapter Leadership Roster

Board of Governors

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

I hope all of our members were able to spend some time with their friends and family during the holidays. Thank you to everyone that was able to join us in December for our 74th annual Christmas Party, and a special thanks to all of our board members and committee chairs who put in the effort to make this event such a continued success.

Now that Monday's snow has started to melt, we are excited to get back to our regular meeting schedule and return to The Engineer's Club. This month we have a friend and former chapter president, Jen Leach, joining us for our first meeting of the new year on Thursday, January 9th.

On Friday this week, we have our 3rd annual Golf Skills Competition. There are still spots available, so please reach out to our RP team if interested. This is always a fun event, and a good opportunity to break out the golf clubs and get some practice in for our golf tournament later this year. Thank you to Advanced Thermal Solutions for sponsoring!

We look forward to seeing many of you at these events later this week! Happy New Year

A handwritten signature in blue ink, appearing to read "KL", with a long horizontal flourish extending to the right.

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
TBD	Tech: Clean Heat Main: Refrigeration Tour, TBD
March 6, 2025 @ESB	Tech: TBD 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

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2025 ASHRAE Research Promotion 3rd Annual Golf Skills Competition!

Come shake off the winter rust and put your golf skills to the test to be crowned ASHRAE RP's 2025 Golf Champion. This event is fun for all skill levels, whether you are ready for the PGA Tour or your golf experience consists of an occasional mini golf hole-in-one. You can bring your own clubs or clubs will be provided if needed. Events will include putting, chipping, long drive, and closest to the pin. Long drive and closest to the pin competitions will be held in an indoor Trackman simulator bay. Competing in all four events will only take approximately an hour, but everyone is welcome to come before and/or stay after their tee time to network and/or watch your fellow competitors succeed...or fail. A real-time live leaderboard will show you where you rank, and prizes will be awarded for each event, with a grand prize for the overall winner! All proceeds will benefit ASHRAE RP.

Date / Time

01/10/2025
12p - 7pm

Cost

\$40 / Person
\$150 / Foursome
*100% of registration fee will
be counted as a donation to
ASHRAE RP

Sponsorships

Food: \$300
Drinks: \$250
Prizes: \$200

Location

Advanced Thermal Solutions
601 N. Hammonds Ferry Rd, Ste F-J
Linthicum, MD 21090

Specific tee times will be able to be reserved after sign-up, so register now to ensure your preferred start time! Spots will fill up quickly!

VISIT <https://ashrae-balto.org/meetinginfo.php?id=135> TO REGISTER TODAY!

Please reach out with any questions to Dave Handzo or Joe Petty at research@ashrae-balto.org



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>
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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>
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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

