



OCTOBER - VOLUME LVII ISSUE 02

THERMOGRAM

MAIN MEETING: DYNAMIC OPTIMIZATION
VIRTUAL TECH SESSION: ENERGY IN BUILDINGS

Thursday, October 3, 2024

Virtual Lunch Meeting:

Tech Session (Webex): 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: Energy in Buildings - An HVAC Perspective for the 21st Century

Speaker: Fabio Clavijo, P.E., ASHRAE Distinguished Lecturer

The increasing global warming effect and need to limit fossil energy use in the coming decades call for the engineering community to develop new technologies associated with high efficiency and clean energy solutions. An introduction to today's incoming refrigerants and their environmental impact will be followed by a review of energy efficiency concepts in buildings. Also, HVAC design, installation, and operation opportunities and facts referenced by ASHRAE STD-90.1, ASHRAE STD-189.1 and green guides. The session will identify opportunities to improve building performance through overall energy efficiency HVAC solutions supported by DOAS systems, energy recovery, thermal storage and renewable energy sources.

Main meeting: Maintaining High Performance Buildings: Advanced Optimization

Speaker: Jesse Craft, P.E., Siemens

As energy codes and standards have evolved to drive higher levels of efficiency, buildings have complied through increased complexity of design and operations. As a result, maintaining the performance of buildings over time has become more challenging. This presentation will discuss key challenges in delivering persistent optimization to HVAC systems; opportunities to improve building performance through advanced strategies including machine learning and AI; and how optimization and maintenance should be incorporated into a lifecycle strategy that can help deliver optimal performance at low costs to building systems.

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

What a great way to start the year! Thanks to everyone that joined us at Tiki Lee's in September as we celebrated the end of summer in style. It is great to see more and more Hawaiian shirts each year! With summer officially in the rear-view, we welcome fall and all that comes with it. Mostly importantly, Orioles playoff baseball!

We return to The Engineer's Club for our next meeting on Thursday. With a little luck, the Orioles will have wrapped up the wild card series in two games and won't contend with our Thursday meeting! Be sure to pay attention to game times, as a Thursday game would surely impact travel to and from the ESB. Our October meeting will highlight our Research Promotion efforts, recognizing all our generous donors from last year.

Sticking to the RP theme, please make sure to mark your calendars for Monday, October 28th! That morning we will be returning to Happy Harbor Marina in Deale for our 12th Annual Rockfish Tournament. Registration will open soon, with all proceeds going to ASHRAE research and promotion.

At the society level, M. Dennis Knight, P.E., Fellow, Life Member, will serve as the 2024-45 ASHRAE President. This years theme, introduced as his inaugural address, is "*Empowering Our Workforce: Building a Sustainable Future.*" The number of HVAC systems in operation is expected to triple over the next 30 years, and yet our workforce is shrinking. As we strive to create a sustainable world and decarbonize the built environment, we will be required to change the ways in which we promote, recruit, educate, upskill, reskill and grow the HVAC&R workforce.

With that in mind, I'd like to recognize Baltimore member Casey Ross for being part of the inaugural class of ASHRAE Certified Decarbonization Professionals!

I look forward to seeing everyone on Thursday! Go O's!

A handwritten signature in blue ink, appearing to read "Kevin Lindemann", written over a light blue grid background.

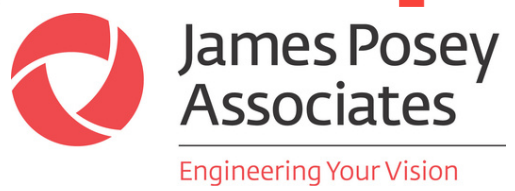
Kevin Lindemann
ASHRAE Baltimore President

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 2, 2025 @ESB	Tech: TBD Main: Ethics
TBD	Tech: TBD Main: Refrigeration Tour, TBD
March 6, 2025 @ESB	Tech: TBD Main: TBD
April 3, 2025 @ESB	Tech: Motor Efficiency Standards Main: TBD
May 1, 2025 @ESB	Tech: TBD Main: TBD

2024-2025 SPONSORS

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UPCOMING EVENTS



**YEA
HAPPY
HOUR**

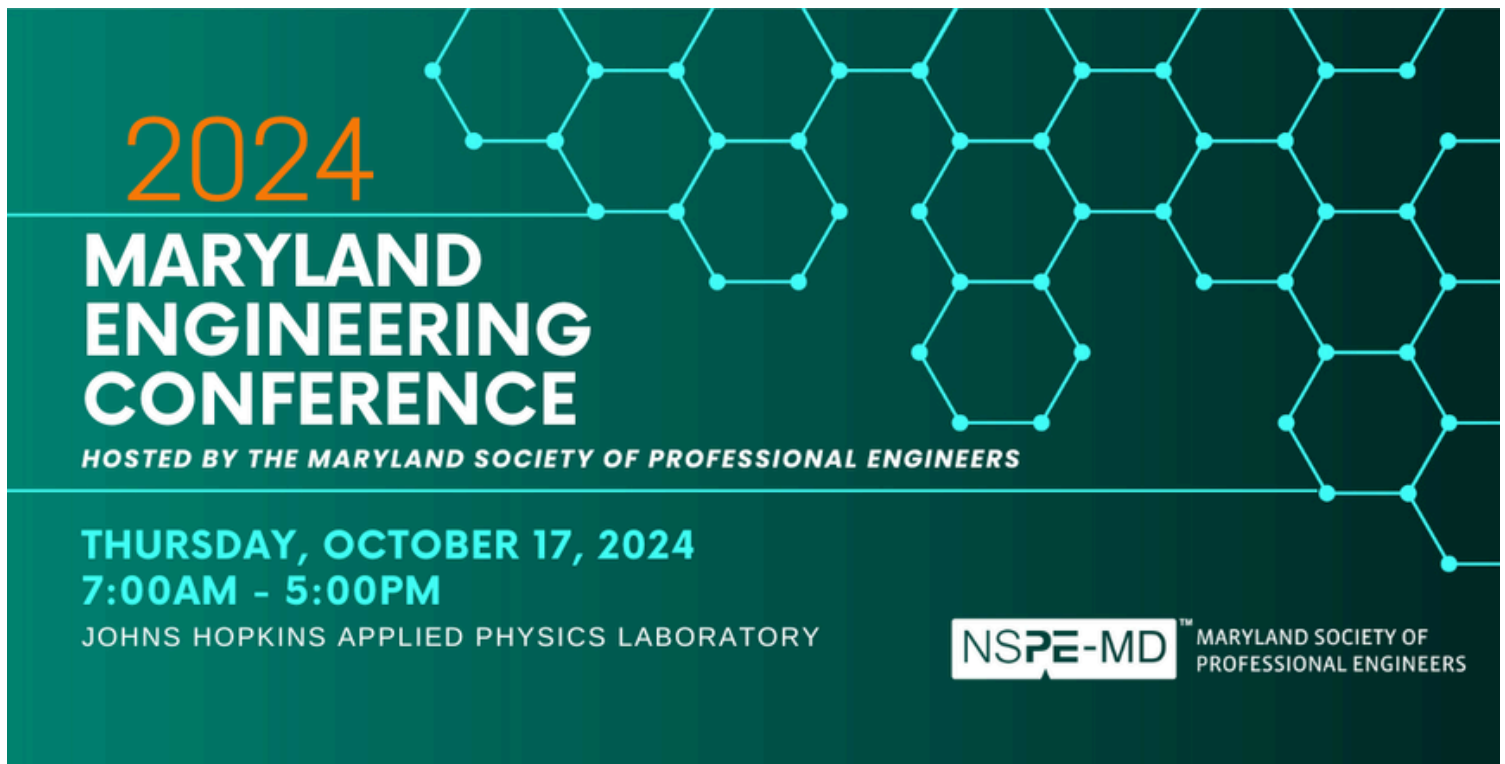
OCTOBER 23, 2024
5:30-7:30 PM

**MEMBERSHIP PROMO:
IF YOU REGISTER TO BECOME AN ASHRAE
MEMBER, YOU'LL BE ENTERED TO WIN A
\$100 GIFT CARD
(VALID ONLY FOR NEW MEMBERS)**

MONUMENT CITY BREWING
1 N HAVEN ST, BALTIMORE, MD 21224

UPCOMING EVENTS

MDSPE is offering \$100 off the non-member price for all ASHRAE members. Register [here](#). Use code 'ASHRAE_MDConference24' for your discount!



2024
MARYLAND ENGINEERING CONFERENCE
HOSTED BY THE MARYLAND SOCIETY OF PROFESSIONAL ENGINEERS

THURSDAY, OCTOBER 17, 2024
7:00AM - 5:00PM
JOHNS HOPKINS APPLIED PHYSICS LABORATORY

NSPE-MD™ MARYLAND SOCIETY OF PROFESSIONAL ENGINEERS

The Maryland Society of Professional Engineers (MDSPE) is excited to host the 2024 Maryland Engineering Conference. This full-day event, taking place on October 17, 2024 at Johns Hopkins Applied Physics Laboratory, offers up to 8 continuing education credits for professional engineers.

Topics will include:

- Maryland Building Energy Performance Standards (BEPS) Panel
- AI and Engineering
- Engineering Ethics
- Demystifying the Claims Process
- Retail Electric Interconnections
- Anne Arundel County Water Service Inventory Program
- Advances in Building Fire Protection Systems

Congratulations

Baltimore Chapter Newly Certified Professionals:

Casey Ross, CDP

Have you considered an ASHRAE certification?

For the past 100+ years ASHRAE has worked hard to earn and maintain a worldwide reputation for being the leader in HVAC&R design. ASHRAE certification programs serve to reinforce that reputation. Visit The [ASHRAE' Certification](#) page for more information.



NEW!

