



MARCH - VOLUME LVI ISSUE 07

THERMOGRAM

**MAIN MEETING: TAX CREDITS FOR THERMAL STORAGE
VIRTUAL TECH SESSION: ADVANCED DIGITAL
METERING FOR HIGH-PERFORMANCE BUILDINGS**

ASHRAE Meeting Details:

March 7, 2024 - Thursday

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

Networking Hour: 5:00 - 6:30 pm

Main Dinner Meeting: 6:30 - 8:00 pm

Registration for virtual tech session only is free for members, \$10 for non-members.

Tour is \$35 for members and non-members, and registration includes virtual tech session.

Tech Session: Advanced Digital Metering Technologies for High Performance Buildings

Speaker: Ryan M. Nice, Badger Meter

This presentation will discuss and explain different digital metering technologies for flow and BTU energy measurement and the latest innovations in these metering technologies. We will go over the types of hydronic applications best suited for digital flow and energy metering and we will also discuss advanced communications for building management systems.

Main Meeting: Inflation Reduction Act and 40% Tax Credits for Thermal Storage, plus Heating with Ice in Cold Climates

Speaker: Bruce Lindsay, Business Development Leader, Trane Thermal Storage

In order to achieve 100% renewable energy, we must have energy storage. Electric batteries have potential, however, thermal batteries (ice storage systems) are proven and reliable. The Inflation Reduction Act of 2022 specifically granted thermal energy storage systems a 30% tax credit, and since most are manufactured in the US, they receive another 10% tax credit.

Many cities are prohibiting natural gas for heating commercial buildings as part of their decarbonization policies. The intent is to convert to electric heat pumps. Unfortunately, air-source heat pumps are limited to 0F ambient temperatures. A new system has been developed that uses the water in an ice storage tank as a source of heat in cold climates.

2023-2024 Chapter Leadership Roster

Board of Governors

	President Terry Schroeder	president@ashrae-balto.org, P: 443.224.1594 WRA		Governor/Asst. Secretary Rob Broczkowski	asstsecretary@ashrae-balto.org, P: 571.318.7310 ETC
	President-Elect Kevin Lindemann	vp@ashrae-balto.org, P: 410.561.1655 Chesapeake Systems		Governor Luis Belisario	gov2@ashrae-balto.org, P: 410.807.8279 Prime AE
	Treasurer Kaylee Haupt	treasurer@ashrae-balto.org, P: 443.789.0188 Baltimore County Public Schools		Senior Advisor Sam Philipp	senioradvisor@ashrae-balt.org, P: 410.316.2485 JMT
	Secretary Simona Georgiev	secretary@ashrae-balto.org, P: 410.316.2263 JMT		Past President Nancy Neely	pastpresident@ashrae-balto.org, P: 410.746.4168 Johnson Controls

Committee Chairs

Attendance/Recpt. Co-Chair: Elyas Khan, JCI 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: Jennifer Leach, BR+A historian@ashrae-balto.org	Student Activities: Abe Undieh, Chesapeake Systems studentacts@ashrae-balto.org
Chapter Programs: Kevin Lindemann, Chesapeake Systems programs@ashrae-balto.org	Historian Co-Chair: Terry Schroeder, WRA historian@ashrae-balto.org	Thermogram: Terry Schroeder, WRA newsletter@ashrae-balto.org
CTA (Tech Awards): Kevin Lindemann, Chesapeake Systems cta@ashrae-balto.org	Membership: Rich Girard, RMF membership@ashrae-balto.org	Young Engineers: Co-Chair: Matt Francis, ATS yea@ashrae-balto.org
Diversity in ASHRAE Co-Chair: Patrick Harrilal, JMT dia@ashrae-balto.org	Membership Co-Chair: Ben Joel, WSP membership@ashrae-balto.org	Young Engineers Co-Chair: Matt Hart, ATS 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: Vikas Kiran, Prime AE Maggie Palacz, Schneider Electric ashtech@ashrae-balto.org
Engineers Week: Nick Spicher, Chesapeake Systems engweek@ashrae-balto.org	Research Promotion Co-Chair: Michael Poe, Legacy Engineering Group research@ashrae-balto.org	Women in ASHRAE: Nicole Harshbarger, Schneider Electric wia@ashrae-balto.org

PRESIDENT'S PEN

The month of March always sneaks up on us, even when there's an extra day in February. It's time again for your Chapter newsletter and another great meeting at the ESB downtown.

Thanks to everyone who joined us at Liquidity Aleworks in February! We had a great turnout, and having a brewery tour led by a former HVAC Engineer was a special treat.

Thanks also to our awesome volunteers that made eWeek a success! ASHRAE hosted High School students at the ESB on February 20th as part of the ESB's Engineers' Week celebration. Our volunteers shared information on daily life as an HVAC engineer and led the students in a hands-on green building design challenge.

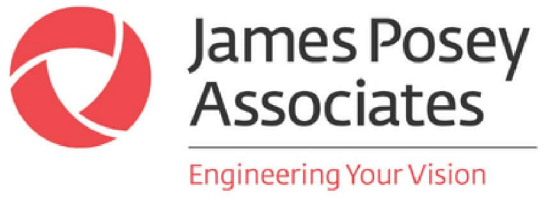
As we start the spring, keep an eye out for more ASHRAE social events, including YEA, DEI and WIA social events and our annual golf tournament. It's going to be a busy spring, and we hope to see many of you out and about!

A handwritten signature in blue ink that reads "Terry Schroeder".

Terry Schroeder
ASHRAE President

23-24 CHAPTER SPONSORS

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MEETING SCHEDULE

September 7, 2023	Tiki Lee's Social
October 5, 2023 @ESB	Tech: Building Envelope and HVAC Main: ASHRAE 62.1 IAQ Procedure Research Promotion Night
November 1, 2023 @ESB	Tech: Net Zero Carbon Design & Performance Main: Radiant & Hydronics for Decarb Membership Promotion Night
December 1, 2023 @Timonium Fairgrounds	73rd Annual Christmas Party!
January 4, 2024 @ESB	Tech: Reducing Airborne Particulates Main: Standard 170 - Healthcare Ventilation
February 1, 2024 @TBD	Tech: Refrigerant Phasedown Main: Refrigeration Tour, Liquidity Alehouse
March 7, 2024 @ESB	Tech: Advanced Digital Metering Main: Inflation Reduction Act and Tax Credits for Thermal Storage
April 4, 2024 @ESB	Tech: Update to Empower MD Building Tune-Up Program Main: Maryland Building Energy Performance Standards Update
May 2, 2024 @ESB	Tech: HVAC Communication Protocols - BACnet SC Main: Details soon!

UPCOMING EVENTS

DEI & WIA ARE HOSTING

SPRING SOCIAL

May 16th at 5:00 PM to 8:00 PM

Shmidt Spirits Distillery
10360 Southard Drive
Beltsville, MD 20705

\$30 per ticket includes:
One free cocktail of choice
Distillery tour and tasting
Small bites and cornhole

<https://ashrae-balto.org/meetinginfo.php?id=116>

UPCOMING EVENTS

SAVE THE DATE!

66th Annual Golf Outing

Thursday June 6th at 9:00 am
Turf Valley Country Club

Foursomes available soon!
Golf@ashrae-balto.org



ASHRAE STRATEGIC PLAN

ASHRAE Society Leadership is looking for feedback about the Strategic Plan. Where should we be headed? Let your voice be heard on the form at <https://bit.ly/3w7HNcF>



The survey should take no longer than 12 minutes to complete and **will close on 3/7/2024 at 11:59 p.m. Eastern Time**. Data will be analyzed by ASHRAE's survey partner, McKinley Advisors, to protect confidentiality. Your data will only be used for research purposes.

If you have any questions or need assistance with the survey, please contact Jennifer Dickinson, Senior Consultant at McKinley Advisors, by emailing jdickinson@mckinley-advisors.com.

MD CLEAN BUILDINGS HUB

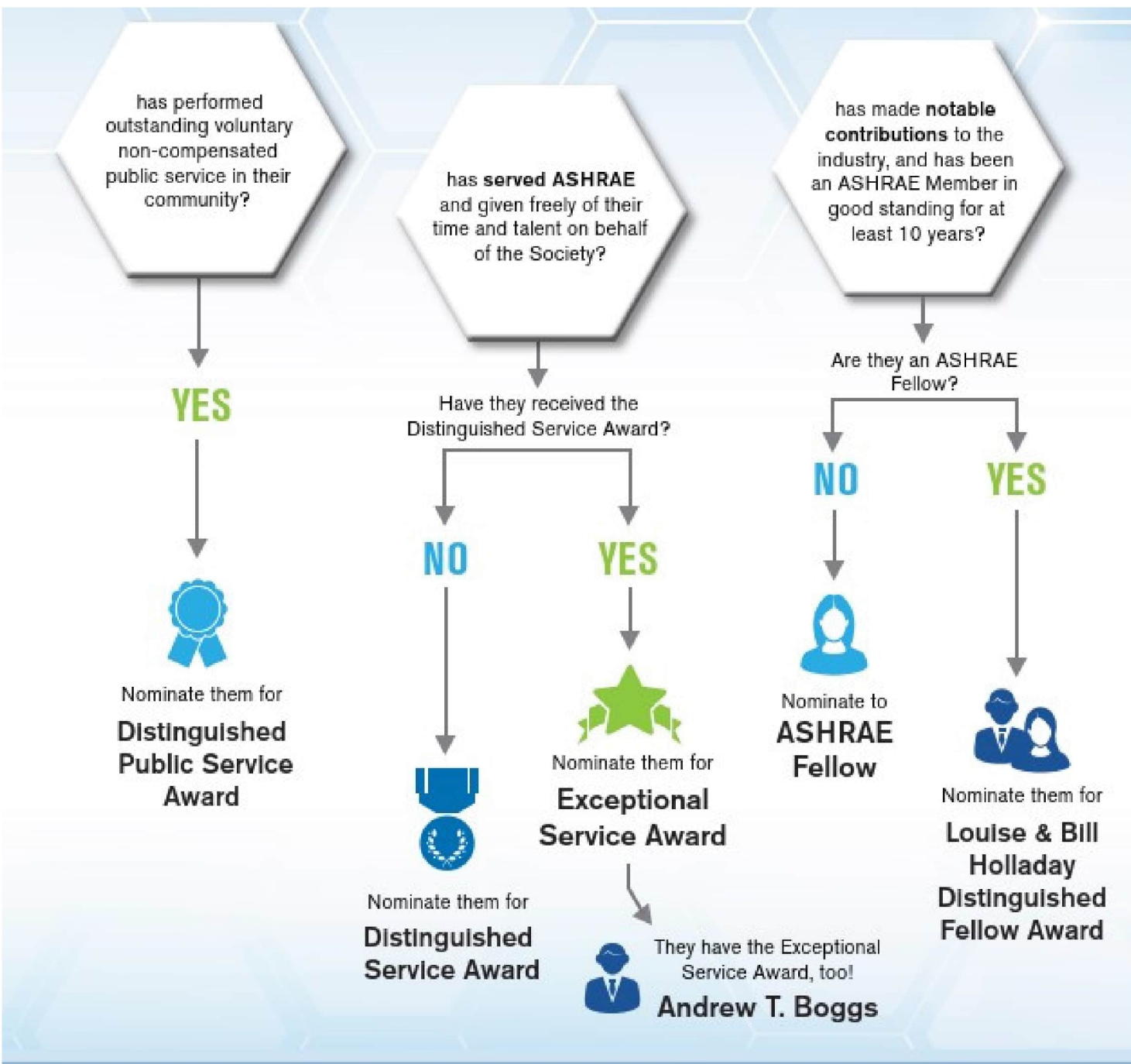
The Maryland Energy Administration (MEA) is launching the Maryland Clean Buildings Hub that will serve as a clearinghouse of relevant information and resources to help Building Owners achieve Maryland's climate goals. They are asking for help from Building Owners, Managers, and Operators to inform development of the Hub - please take a few minutes to answer their 1-page survey using [this Google Docs form](#).

If you'd like to receive communications from the Clean Buildings Hub, you can [sign up using the form here](#).



MEMBER AWARDS

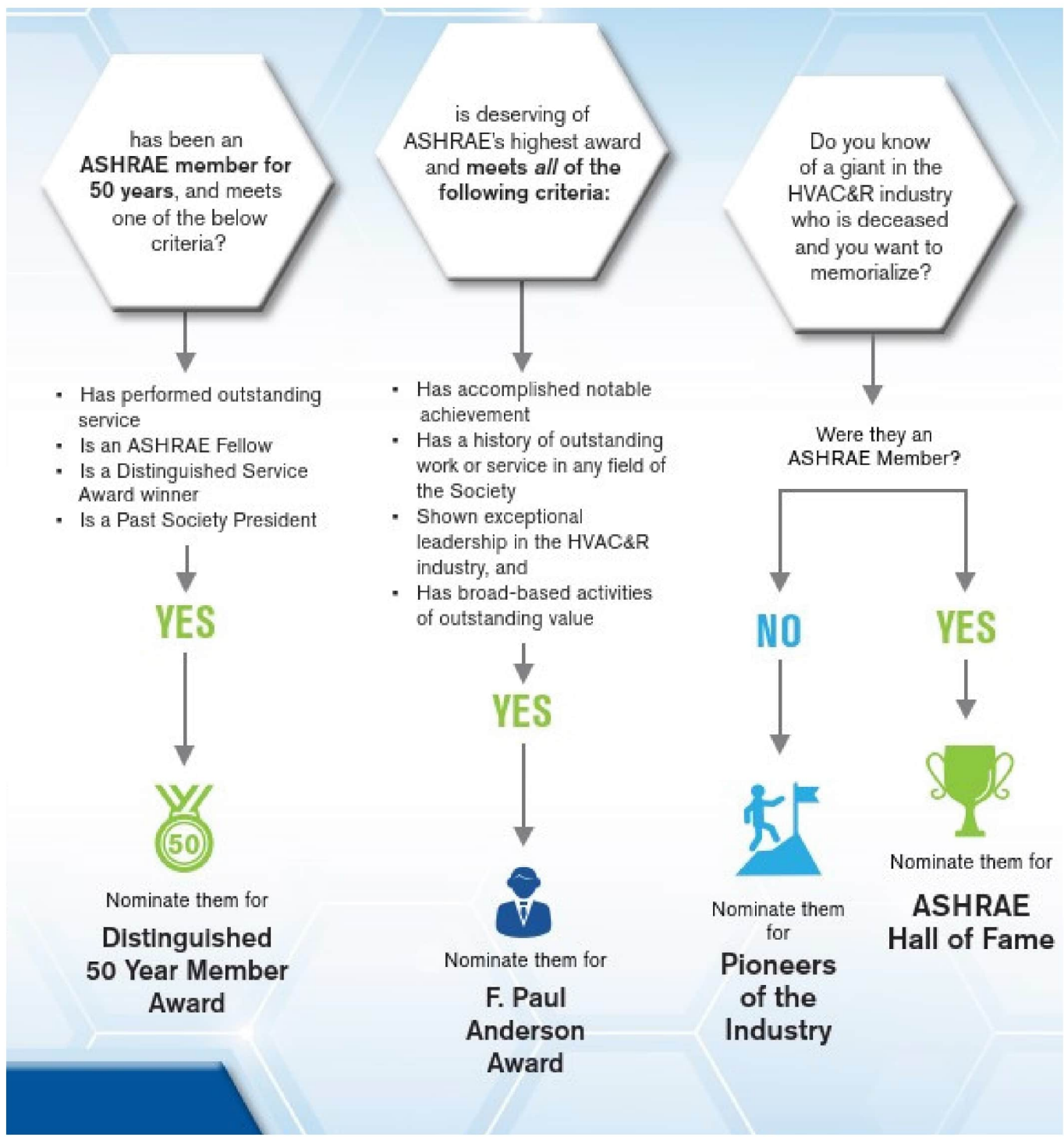
Do you know an ASHRAE member who...



Learn more and nominate someone today at ashrae.org/honorsandawards

MEMBER AWARDS

Do you know an ASHRAE member who...



BALMER DIRECTORY

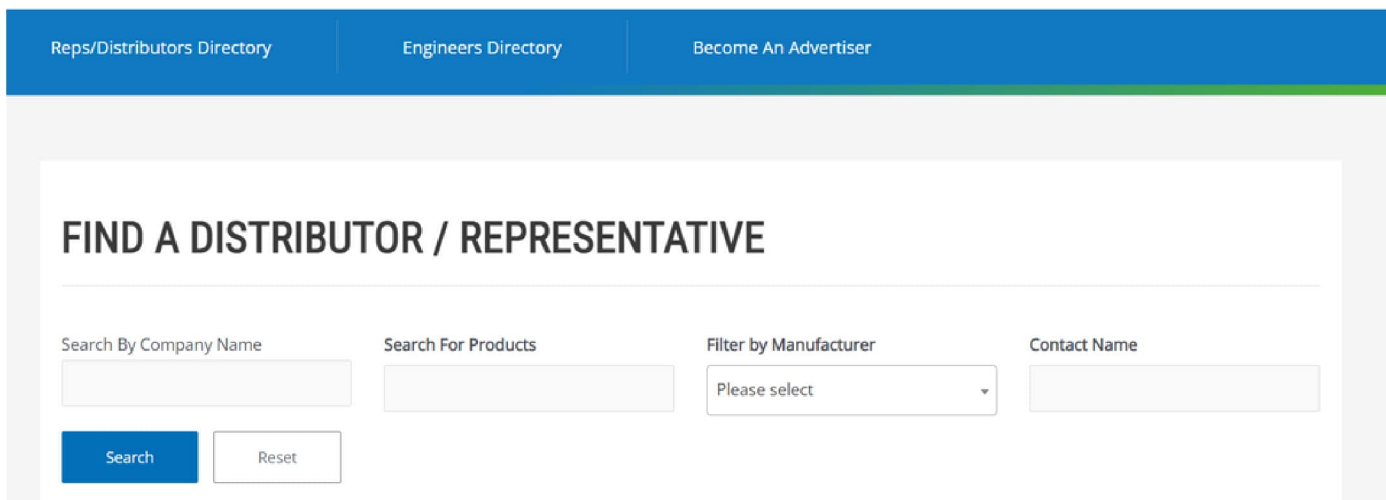
Are you looking for a local manufacturer's rep that sells a specific product? Maybe you are looking for an engineering firm to partner with? If so, check out www.ashrae-balmer.org!

Baltimore ASHRAE is thrilled to provide BALMER - the Baltimore Area List of Mechanical Engineering Resources - a website dedicated to advertising local equipment representatives and engineering firms to make it easier to find products, reps, engineers, and their contact information.

If you are interested in listing your firm, please head to the site and click on the "Become an Advertiser" link in the main navigation bar. Rates are:

\$500/year for Reps/Distributors
\$250/year for Engineering Firms

All content on BALMER is self-managed, and your renewal period starts on the day you register. Please reach out if you have questions! president@ashrae-balto.org.



The screenshot shows the top navigation bar with three links: "Reps/Distributors Directory", "Engineers Directory", and "Become An Advertiser". Below the navigation bar is a search interface titled "FIND A DISTRIBUTOR / REPRESENTATIVE". The search interface includes four input fields: "Search By Company Name", "Search For Products", "Filter by Manufacturer" (with a dropdown menu showing "Please select"), and "Contact Name". There are two buttons: a blue "Search" button and a white "Reset" button.