



[www.ashrae-balto.org](http://www.ashrae-balto.org)

# THERMOGRAM

November 2017  
Volume III Issue 03

## Main: Lake and Sea Water Cooling Projects Tech Session: HVAC Load Calculations

### **ASHRAE November 9th MEETING:**

Tech Session:	5:00 pm – 5:45 pm	Dinner:	6:30 pm – 7:00 pm
Network Hour:	5:30 pm – 6:30 pm	Main Speaker:	7:00 pm – 8:15 pm

#### **Main Meeting: Lake and Sea Water Cooling Projects**

*Speaker: John C. Peterson, PE, ASHRAE Distinguished Lecturer*

Low temperature water from seawater and deep lakes is becoming an option as a heat sink for buildings and processes. As part of meeting ASHRAE's goal for buildings to achieve net-zero energy use by the year 2030, including energy-intensive mission critical facilities, designers must choose the most beneficial options available to them. This presentation reviews the benefits and drawbacks of using rivers and lakes as heat sinks for the modern data center with the need for high reliability.

Mr. Peterson is a consultant, manager and technical author specializing in operations and efficiency, primarily with data centers and other mission critical facilities. He is a registered professional engineer with experience ranging through all project and program phases from initiation to closing. He is experienced in providing coordination among clients, disciplines, utilities, and special consultants as well as public speaking and technical presentations.

#### **Tech Session: HVAC Load Calculations**

*Speaker: Jesse Fisher, P.E. CPD*

Space load calculation results are the basis for heating and air-conditioning systems and components. The sizing and design of all HVAC equipment and distribution systems is dependent on accurate heating and cooling load calculations for both spaces and the systems serving those spaces. We'll review the physics of heat transfer, thermal resistance calculation of building assemblies, heat transfer through building assemblies, internal heat gains, and system level loads.

**The November meeting will take place at the Engineers Club.  
11 West Mount Vernon Place Baltimore, MD 21201**



## 2017-2018 Chapter Leadership Roster

### Officers

<b>President</b> P:410-323-0600	Craig Parks <a href="mailto:president@ashrae-balto.org">president@ashrae-balto.org</a>	BKM
<b>President-Elect</b> P:410-880-0850 x123	Brad Watkins <a href="mailto:vp@ashrae-balto.org">vp@ashrae-balto.org</a>	Cummins-Wagner
<b>Treasurer</b> P:410-329-8100	Steph Kunkel <a href="mailto:treasurer@ashrae-balto.org">treasurer@ashrae-balto.org</a>	JMT
<b>Secretary</b> P:410-793-0202	James Cote <a href="mailto:secretary@ashrae-balto.org">secretary@ashrae-balto.org</a>	United Energy Products
<b>Board Member</b> P:443-561-1652	Jeff Shook <a href="mailto:asstsecretary@ashrae-balto.org">asstsecretary@ashrae-balto.org</a>	Chesapeake Systems
<b>Board Member</b> P: 410-579-8100	Ryan Berger <a href="mailto:gov2@ashrae-balto.org">gov2@ashrae-balto.org</a>	Leach Wallace Associates
<b>Board Member</b> P:443-977-9741	Sherry Abbott-Adkins <a href="mailto:senioradvisor@ashrae-balto.org">senioradvisor@ashrae-balto.org</a>	A Squared Plus Engineering
<b>Past-President</b> P:410-316-7800	Dave Reese <a href="mailto:pastpresident@ashrae-balto.org">pastpresident@ashrae-balto.org</a>	KCI Technologies

### Committee Chairs

<b>Attendance/Recpt.</b> P:443-224-1594	Theresa Schroeder <a href="mailto:reservations@ashrae-balto.org">reservations@ashrae-balto.org</a>	Whitman Requardt
<b>Chapter Programs</b> P:410-880-0850x123	Brad Watkins <a href="mailto:programs@ashrae-balto.org">programs@ashrae-balto.org</a>	Cummins-Wagner
<b>Historian</b> P:410-323-0600	Craig Parks <a href="mailto:historian@ashrae-balto.org">historian@ashrae-balto.org</a>	BKM
<b>Membership</b> P:443-809-9079	Kaylee Haupt <a href="mailto:membership@ashrae-balto.org">membership@ashrae-balto.org</a>	BCPS
<b>Refrigeration</b> P:410-403-2200	Jon Olmstead <a href="mailto:refrigeration@ashrae-balto.org">refrigeration@ashrae-balto.org</a>	The Trane Company
<b>Research Promotion</b> P: 443-353-0996	Tim Reynolds <a href="mailto:research@ashrae-balto.org">research@ashrae-balto.org</a>	KCI
<b>Scholarship</b> P:410-579-8100	Ryan Berger <a href="mailto:scholarship@ashrae-balto.org">scholarship@ashrae-balto.org</a>	Leach Wallace Associates
<b>Student Activities</b> P:410-329-8100	Sam Philipp <a href="mailto:studentacts@ashrae-balto.org">studentacts@ashrae-balto.org</a>	JMT
<b>Student Activities</b> P:410-652-5437	Robert Broczowski <a href="mailto:studentacts@ashrae-balto.org">studentacts@ashrae-balto.org</a>	Mueller Associates
<b>Young Engineers</b> P:410-746-4168	Nancy Neely <a href="mailto:yea@ashrae-balto.org">yea@ashrae-balto.org</a>	Johnson Controls, Inc.
<b>CTA</b> P:410-880-0850x123	Brad Watkins <a href="mailto:cta@ashrae-balto.org">cta@ashrae-balto.org</a>	Cummins-Wagner
<b>CTTC</b> P:410-880-0850x123	Brad Watkins <a href="mailto:cttc@ashrae-balto.org">cttc@ashrae-balto.org</a>	Cummins-Wagner
<b>Thermogram</b> P:410-381-7655	Kelly Brennan <a href="mailto:newsletter@ashrae-balto.org">newsletter@ashrae-balto.org</a>	Schneider Electric
<b>Engineers Week</b> P:410-329-8100	Sam Philipp <a href="mailto:engweek@ashrae-balto.org">engweek@ashrae-balto.org</a>	JMT
<b>Web Technician</b> P:410-316-7800	Ben Becker <a href="mailto:ashtech@ashrae-balto.org">ashtech@ashrae-balto.org</a>	KCI Technologies
<b>Christmas Party</b> P:410-527-2612	John Prusak <a href="mailto:Christmas@ashrae-balto.org">Christmas@ashrae-balto.org</a>	Johnson Controls, Inc.
<b>Golf Outing</b> P:443-561-1600	R L Gladden <a href="mailto:golf@ashrae-balto.org">golf@ashrae-balto.org</a>	Chesapeake Systems
<b>Women in ASHRAE</b> VOLUNTEER NEEDED		
<b>Grassroots Activities</b> P:410-792-4230	Rich Goins / Chris Meyer <a href="mailto:gga@ashrae-balto.org">gga@ashrae-balto.org</a>	Cummins-Wagner

### ASHRAE Reservation Hotline

Phone: 443-224-1594 ASHRAE Baltimore Chapter  
Attn: Theresa R Schroeder [reservations@ashrae-balto.org](mailto:reservations@ashrae-balto.org)

*In alignment with the "Green Trends" of ASHRAE we have eliminated the paper copies of the Membership Roster. An electronic copy will be available at meetings, upon request.*

### President's Pen

November is Membership Promotion month. ASHRAE has over 56,000 members across the world and the Baltimore Chapter has over 700 members in our region. These 700+ are the most intelligent and qualified members of the ASHRAE Society and we aim to add more. If you are reading this newsletter you are already a member, but you may have a co-worker, an intern, or even a client who doesn't know the benefits of joining.

- ASHRAE Journal Insights
- ASHRAE Handbook
- eNewsletters
- Monthly Meetings and Training Classes (PDHs)
- Discounts on ASHRAE products and services
- Group Insurance

There are too many benefits to list, so direct them to [www.ashrae.org](http://www.ashrae.org).

Our Membership Committee Chair is Kaylee Haupt ([membership@ashrae-balto.org](mailto:membership@ashrae-balto.org)) and she is here to help

Thank you,  
**Craig Parks**  
ASHRAE Baltimore Chapter President  
2017/18



**Meeting Schedule**

Please mark your calendar with the following dates for the 2017 through 2018 Baltimore Chapter meetings. A complete schedule indicating seminar, technical session and main meeting topics will be published in the coming month's Thermogram and is also available on the chapter website

[www.ashrae-balto.org](http://www.ashrae-balto.org).

August 16, 17 & 18, 2017	Chapter Regional Conference	Roanoke, VA
September 7th, 2017	Main Meeting: VFDs and Induced Motor Shaft Voltage Tech Session: Getting to Know Your Chapter Website	M&T Bank Stadium
October 4th, 2017	8th Annual Product Show: 3:00—8:00pm	ESB
November 9th, 2017	Main Meeting: TBD Tech Session: TBD	ESB
December 1, 2017	Christmas Party	ESB
January 4, 2018 (Tentative)	Main Meeting: TBD Tech Session: TBD	ESB
February 8, 2018 (Tentative)	Main Meeting: TBD Tech Session: TBD	ESB
March 8, 2018	Main Meeting: TBD Tech Session: TBD	ESB
April 5, 2018	Main Meeting: TBD Tech Session: TBD	ESB
May 3, 2018	Main Meeting: TBD Tech Session: TBD	ESB
June 2018	61st Annual Golf Outing	Turf Valley CC

Main Meeting Schedule: 5:30 pm social hour, 6:30 pm dinner, 7:00 pm speaker

Tech Session Schedule: 5:00 - 5:45 pm

Cost: \$35 dinner fee for full members, \$10 dinner fee for students





*68th ASHRAE CHRISTMAS PARTY*

**Date: December 1st, 2017**

**Time: 5:00 P.M. until 9:00 P.M.**

**Place: 4H Building, Timonium Fairgrounds**

**\$55.00 / PERSON**

**ATTN: JOHN PRUSAK (Johnson Controls, Inc.)**

**FAX: 410-527-2730**

**PHONE: 410-527-2612**

**email: john.prusak@jci.com**

*Your Mailing Address* \_\_\_\_\_

**ATTN:** \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**PHONE NO/Email.** \_\_\_\_\_

**NO. OF TICKETS:** \_\_\_\_\_

*NOTE: Tickets will not be mailed until receipt of payment. Make checks payable to ASHRAE and mail to my attention at 60 Loveton Circle, Sparks, Md. 21152.*

**"First come, first serve"**

**Also, please consider making a donation to the ASHRAE Research Fund in the amount of \$\_\_\_\_\_**