



www.ashrae-balto.org

THERMOGRAM

April 2016
Volume XLX Issue 10

Main: Front End Loading for Cost Effective Boiler Design
Tech Session: Air Management in Hydronic Systems

A SPECIAL THANKS TO OUR NETWORKING SPONSORS FOR THE EVENING:



ASHRAE APRIL 7th 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: Front End Loading for Cost Effective Boiler Design

Speaker: Paul Rohrs, Design and Application Specialist at Lochinvar Corporation

The main meeting presentation will consist of a brief overview of Front End Loaded Boiler systems and focus on system design, controllability, and cost advantages. Paul Rohrs is a Design & Application Specialist for Lochinvar and his responsibilities include system design for Lochinvar High-Efficiency Boilers, Water Heaters and Tanks. Paul has been in the Plumbing, Heating, & Cooling Industry for 27 years and was previously a National Award Winning radiant systems contractor with radiant design and installation experience. Paul has written articles for PHC News, Plumbing Engineer, Business Mechanical, Reeves Journal, and HPAC Engineering.

Tech Session: Air Management in Hydronic Systems

Speaker: Brad Watkins, Sales Engineer at Cummins-Wagner Co.

The tech session will consist of design and application details pertinent to installation and proper operation of air management equipment in commercial hydronic systems. Air Management is one of the often overlooked, but frequently encountered stumbling blocks for proper system operation.

Brad Watkins is a sales engineer for the Cummins-Wagner company. Brad started his career in residential construction, and has been with Cummins-Wagner for 10 years. Brad attended the esteemed Bell & Gossett Little Red Schoolhouse and trained extensively in commercial hydronics. Mr. Watkins has a mechanical engineering degree from the University of North Dakota and has served 7 years in the ASHRAE organization, holding both committee and board positions for the Baltimore Chapter.



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

2015-2016 Chapter Leadership Roster

Officers

President P:410-303-3125	Adam Fauer F: president@ashrae-balto.org	KCI Technologies
President-Elect P:410-316-7800	Dave Reese F:410-316-7900	vp@ashrae-balto.org
Treasurer P:410-323-0600	Craig Parks F:410-377-2543	BKM treasurer@ashrae-balto.org
Secretary P:410-880-0850 x123	Brad Watkins F: 301-490-7156	Cummins-Wagner secretary@ashrae-balto.org
Board Member P:410-329-8100	Steph Kunkel F:301-490-7156	JMT asstsecretary@ashrae-balto.org
Board Member P:410-793-0202	James Cote F:410-721-7472	United Energy Products gov2@ashrae-balto.org
Board Member P:443-977-9741	Sherry Abbott-Adkins F:410-374-5471	A Squared Plus Engineering senioradvisor@ashrae-balt.org
Past-President P:410-645-1552	Dave Lawson F:410-645-1616	Siemens Bldg Technologies pastpresident@ashrae-balto.org

Committee Chairs

Attendance/Recpt. P:443-224-1594	Theresa R Schroeder F:410-243-5716	Whitman Requardt reservations@ashrae-balto.org
Chapter Programs P:410-316-7800	Dave Reese F:410-316-7900	KCI Technologies, Inc. programs@ashrae-balto.org
Historian P:410-704-2717	Alex Clark	Towson University historian@ashrae-balto.org
Membership P:410-381-7100	Alan Kratz F:	Allen & Shariff membership@ashrae-balto.org
Refrigeration P:410-403-2200	Jon Olmstead F:410-403-2225	The Trane Company refrigeration@ashrae-balto.org
Research Promotion P:410-531-1600	Jeff Shook F:443-561-1601	Chesapeake Systems research@ashrae-balto.org
Scholarship P:410-298-2400	Saqib Ashraf F:860-353-2462	Carrier scholarship@ashrae-balto.org
Student Activities P:410-329-8100	Sam Philipp F: 410-472-2200	JMT studentacts@ashrae-balto.org
Student Activities P:410-652-5437	Robert Broczowski F: 410-646-4738	Mueller Associates studentacts@ashrae-balto.org
Young Engineers P:443-921-8718	Kaylee Haupt F:410-377-2543	BKM yea@ashrae-balto.org
CTA P:410-316-7800	Dave Reese F:410-316-7900	KCI Technologies cta@ashrae-balto.org
CTTC P:410-316-7800	Dave Reese F:410-316-7900	KCI Technologies cttc@ashrae-balto.org
Thermogram P:443-832-5733	Kelly Brennan F:410-381-7654	Schneider Electric newsletter@ashrae-balto.org
Engineers Week P:410-329-8100	Sam Philipp F: 410-472-2200	JMT engweek@ashrae-balto.org
Web Technician P:410-303-3125	Adam Fauer F:	ashtech@ashrae-balto.org
Christmas Party P:410-527-2612	John Prusak F:410-472-4928	Johnson Controls, Inc. Christmas@ashrae-balto.org
Golf Outing P:443-561-1600	R L Gladden F:443-561-1601	Chesapeake Systems golf@ashrae-balto.org
Women in Engineering P:240-542-5568	Jennifer Leach F:301-490-7156	Cummins-Wagner wie@ashrae-balto.org
Grassroots Activities P:443-348-2017	Matthew Grice F:410-298-3940	Gannett Fleming gga@ashrae-balto.org

ASHRAE Reservation Hotline

Phone: 443-224-1594 ASHRAE Baltimore Chapter
Attn: Theresa R Schroeder 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

It is hard to believe that we only have 2 meetings left for the 2015-2016 ASHRAE year. The year has gone by so fast. Our April meeting has traditionally been Past President's night and I hope that many of our past presidents will join us. It is always great to mean with our former leaders and reminisces with them.

Many thanks to Joe Cefaly of Mitsubishi Electric US Cooling & Heating and Patrick J. Barrett from Caterpillar Distributed Generation who provided the technical and main session presentations at our March meeting. Both presentations were well attended and provided some great information.

As is my custom, I would like to take a minute to recognize one of our great volunteers: Kelly Brennan. Kelly is in charge of the Thermogram and pulls together all of the information each month to send it out to our membership. 2015-2016 is Kelly's third year as Thermogram editor and she has done a great job of producing the newsletter getting the Thermogram out on time each month. She has made my job much easier in getting information to our members.

You will also note that the election ballot for the 2016-2017 year is in this edition of the Thermogram. Please take time to review the candidates and cast your vote.

The next meeting will be held on April 7th at the ESB. April's tech and main session topics will be "Air Management in Hydronic Systems" and "Hybrid Condensing/Non-Condensing Boiler Systems." Please come and join us for the technical session at 5 pm, followed by the social hour at 5:30 and dinner at 6:30. Similar to last meeting, each full-session meeting will provide an opportunity for 2 PDH's if you attend both the technical session and main meeting session.

Upcoming events:

1. April Meeting (past president's night): April 7th, 2016 at the ESB
2. 5th Annual Fishing Event: April 25th, 2016 (tentative)
3. May Meeting: May 5th, 2016 at the ESB
4. Golf Outing: June 3rd, 2016
5. Region III CRC: August 18- 20, 2016 (Philadelphia, PA)

Presidential Award of Excellence (PAOE):

In an effort to recognize our chapter and members for their contributions to the ASHRAE community please let me know if you or a chapter member you know has fulfilled any of the following:

1. Chapter member that submits for a bEQ rating
2. Chapter member presentation on bEQ to an outside organization
3. For each Professional Development Hour (PDH) earned by a chapter member on a building science topic other than HVAC&R (e.g., fenestration, insulation, lighting)

Please send me any applicable information at adamfauer@gmail.com.

While our website is under construction, please reference the Thermogram for all event information and schedules. Thank you for your support of the Baltimore Chapter of ASHRAE.

See you soon,

Adam



2015-2016

Meeting Schedule

Please mark your calendar with the following dates for the 2015 through 2016 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.

August 13, 14 & 15, 2015	Chapter Regional Conference	Johnstown, PA
September 9th, 2015	6th Annual Product Show: 3:00—8:00pm	Radisson Timonium
October 8th, 2015	Main Meeting: Advanced Energy Design Guides to Net Zero Buildings Tech Session: Airflow Measurement - Building/Space Pressurization (Volume Tracking) and Intake Control <i>Research Promotion Night</i>	ESB
November 5th, 2015	Main Meeting: Chilled Beam Systems Tech Session: SMACNA New Duct Construction Manual	ESB
December 4, 2015	Christmas Party	Timonium Fairgrounds
January 7, 2016	Main Meeting: Panel discussion What have I learned? Panel: Engineer, Contractor, Mfr's. Rep. Tech Session: Tentative - Energy Modeling	ESB
February 4, 2016	Main Meeting: Refrigeration Tour Tech Session: N/A	MTC Logistics/Of Love & Regret
March 3, 2016	Main Meeting: Combined Heat and Power Tech Session: Pressure-Enthalpy and VRF DOAS	ESB
April 7, 2016	Main Meeting: Front End Loading for Cost-Effective Boiler Design Tech Session: Air Management in Hydronic Systems	ESB
May 5, 2016	Main Meeting: Refrigerants Tech Session: TBD	ESB
June 3, 2016	57th 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: \$25 (cash) or \$26 (credit) dinner fee for full members, \$10 dinner fee for students



Honors and Awards

Greetings Members,

Each year, ASHRAE recognizes members at every level of the organization for outstanding achievements. We are very proud of the contributions our colleagues have made on behalf of the Society, as well as the industry in general. We encourage you to help us recognize these members by nominating them for an appropriate award.

There are several categories for these achievements, including:

- Personal Honors
- Honors for Society Activities
- Society Awards to Groups or Chapters and,
- Chapter and Regional Awards

Nominations for these awards can be made by chapters, regions, committees, and even individual ASHRAE members. If you have an idea for an award nominee, please contact me by emailing dave.lawson@siemens.com.

In the meantime, all ASHRAE Award nominations require a current biographical record, which are located at the ASHRAE site. For your ASHRAE Bio, please follow this link: <https://www.ashrae.org/membership--conferences/my-membership>. You will need to sign in to update your bio, and/or access your profile.

They're your achievements, be proud of them... take a few minutes to update your ASHRAE Bio today!

Best Regards,



*Dave Lawson
Former President
'15-'16 Honors and Awards Chair*

YEA Updates



In February, 25 YEA members enjoyed themselves with a refrigeration tour at a local Baltimore brewery. This event was not only fun, but educational too! YEA members were able to learn about the refrigeration cycle of the brewery while networking with fellow members. YEA of Baltimore looks forward to incorporating more events with a technical component to help influence members to become more active and understand the importance of our industry.

The tour was a joint event with membership promotions where YEA members were able to bring potential new members to join in on the fun.



ASHRAE Baltimore Chapter
GOLF OUTING & BANQUET

Friday, June 3, 2016

TURF VALLEY COUNTRY CLUB

ELLCOTT CITY, MARYLAND

\$140/PERSON

\$150 FOR HOLE SPONSOR

\$700 FOR FOURSOME
 (including hole sponsor)



SHOTGUN START	9:00 AM
CASH BAR & LUNCH AVAILABLE	9:00 AM TO 2:00 PM
RECEPTION	2:00 PM TO 3:00 PM
DINNER	3:00 PM TO 5:00 PM
AWARDS & PRIZES	3:30 PM

GOLF & DINNER RESERVATIONS

R.L. GLADDEN
CHESAPEAKE SYSTEMS
TEL: 443.561.1600
GOLF@ASHRAE-BALTO.ORG

CHECKS PAYABLE TO: ASHRAE BALTIMORE CHAPTER C/O CHESAPEAKE SYSTEMS LLC
 7400 COCA COLA DRIVE, HANOVER, MD 21076 NO TICKETS WILL BE ISSUED

COMPANY: _____

CONTACT: _____

PHONE: _____ EMAIL ADDRESS: _____

NAMES OF FOURSOME: _____

(PLEASE INCLUDE
 EMAIL ADDRESS AND PHONE) _____

NO. OF PLAYERS _____ @ \$140/EA

HOLE SPONSOR: YES _____ @ \$150/EA

TOTAL FOR PLAYERS: _____

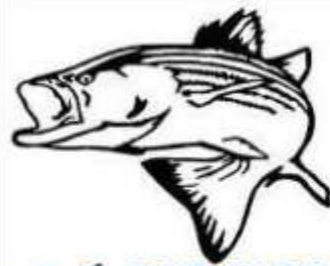
TOTAL FOR HOLE SPONSOR: _____

TOTAL AMOUNT OF CHECK: _____

PLEASE NOTE THAT ALL CORPORATE LOGOS FOR HOLE SPONSORSHIPS MUST BE SUBMITTED
 ELECTRONICALLY

EMAIL R.L. GLADDEN AT GOLF@ASHRAE-BALTO.ORG OR FAX TO R.L.'S ATTENTION: 443-561-1601

A.S.H.R.A.E. BALTIMORE CHAPTER



2016 5th ANNUAL
ROCKFISH EVENT
MONDAY APRIL 18, 2016

ENTRY FEE IS \$975.00 PER 6-PERSON BOAT SPONSOR
AND \$1,900 PER 12-PERSON BOAT*
\$175.00 PER PERSON**
\$110.00 PER ASHRAE YEA MEMBER (35 & Younger)**

ALL PROCEEDS GO TO ASHRAE RESEARCH AND PROMOTION

TOURNAMENT RULES:

The tournament will be held at Dockside Restaurant and Marina located at 421 Deale Road, Deale, MD. The weigh-in will begin at 1:30 PM and all boats must be present at the marina by 1:30 PM in order to qualify for prizes. Lunch will be provided at Dockside Restaurant located at the marina and will be buffet style with beverages provided. Coffee will be provided in the morning.

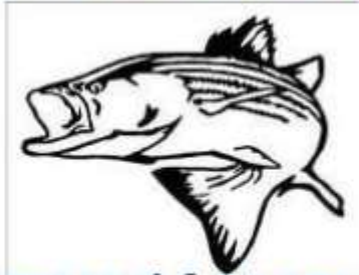
**PAID ENTRY TO THE TOURNAMENT INCLUDES CHARTER FISHING TRIP
AND AWARDS BUFFET LUNCH.**

SCHEDULE

REGISTRATION: 5:30-6:00 AM
BOATS LEAVE MARINA: 6:00 AM
BOATS RETURN TO MARINA: 1:00 PM
AWARDS LUNCH: 1:00 - 2:30 PM

*DUE TO AN INCREASED INTEREST WE ARE LIMITING EACH COMPANY TO A MAXIMUM OF 2 BOATS
**ENTRIES WILL BE RESERVED ONCE THE PAYMENT IS RECEIVED
PLEASE NOTE THAT TIPS FOR THE FIRST MATE ARE INCLUDED IN THE ABOVE PRICE

A.S.H.R.A.E. BALTIMORE CHAPTER



2015 *FOURTH ANNUAL ROCKFISH EVENT OFFICIAL ENTRY FORM*

PARTICIPANTS

(Please list quantity and provide list of participants if a whole boat is purchased)

- 6-PERSON BOAT SPONSORSHIP: _____ (\$975 Per Boat)
- 12-PERSON BOAT SPONSORSHIP: _____ (\$1,900 Per Boat)
- INDIVIDUAL FISHERMEN: _____ (\$175 Per Person)
- YEA MEMBER FISHERMEN: _____ (\$110 Per Person)

SPONSORSHIP

(Please list quantity)

Sponsorship includes a sign at lunch or at the bar

- BREAKFAST SPONSOR: _____ (\$75)
- LUNCH SPONSOR: _____ (\$300)
- BAR SPONSOR: _____ (\$250)

Please return completed form and checks no later than April 1st, 2016 to:
Jeff Shook
7400 Coca Cola Dr.
Hanover, MD 21076

Make checks payable to ASHRAE Baltimore Chapter
Additional donations to RP can be made with entry fee

Call (443-561-1652) or email (research@ashrae-balto.org) with any questions or to find out sponsorship availability

Election Ballot 2016-2017

This slate of Officers for the Baltimore Chapter of ASHRAE has agreed to serve in the Board capacities listed below, and are being presented to the membership for consideration. No additional nominees were proposed, therefore, nominations were closed.

Please indicate your confirmation of these nominees by checking the box opposite their name and sign the bottom of your form. Please send your ballot to adamfauer@gmail.com by April 18th. The ballots will be tabulated and the election results will be announced at the May meeting.

Nomination of Officers

Officers and Board Members for 2016-2017

- | | |
|--|----------------------|
| <input type="checkbox"/> President (no vote required) | Dave Reese |
| <input type="checkbox"/> President-Elect | Craig Parks |
| <input type="checkbox"/> Treasurer | Brad Watkins |
| <input type="checkbox"/> Secretary | Stephanie Kunkel |
| <input type="checkbox"/> Governor | James Cote |
| <input type="checkbox"/> Governor | Jeff Shook |
| <input type="checkbox"/> Senior Advisor | Sherry-Abbott Adkins |
| <input type="checkbox"/> Past President (no vote required) | Adam Fauer |

www.ashrae.org/webcast

Location

Cummins-Wagner Office
10901 Pump House Rd
Annapolis Junction MD 21075

Contact Brad Watkins to reserve a space
(secretary@ashrae-balto.org)

Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

April 21, 2016 | 1:00–4:00 p.m. EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs).



T. David Underwood, P.Eng.,
Fellow ASHRAE,
Life Member, CPMP



Marc Brune, P.E.



Philip Macey, AIA



Paul Torcellini,
Ph.D., P.E.

