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THERMOGRAM

May 2016
Volume XLX Issue 11

Main: Refrigerants

Tech Session: Air Filtration Design Standards

A SPECIAL THANKS TO OUR
NETWORKING SPONSORS
FOR THE EVENING:



TRANE

ASHRAE MAY 5th 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: Refrigerants

Speaker: Tom Gorman, Chiller Systems Marketing Manager at Trane

Ever since the Montreal Protocol meetings began regulating CFCs in the 1980s, refrigerant rules and acceptability continue to evolve. Since then, there has been an increased focus and accelerated timing on regulations for all fluids that are being used today in the HVAC industry. This persistent churn generates confusion— what's in, what's out, and what's coming? At the same time, the market has been demanding equipment, design strategies and control methods that result in the highest levels of efficiency— will the new fluids hinder or enhance that efficiency? The next-generation of fluids represents new challenges for providing the highest performing HVAC equipment; besides efficiency they may also challenge the industry's expectations for safety and flammability. This presentation separates fact from fiction, and discusses why, when, and how the industry will face the coming refrigerant transitions.

Tom Gorman is the Chiller Systems Marketing Manager and works closely with Product Management, Planning, Support, Engineering, Manufacturing and other groups focused on chiller products and systems. His main focus is providing a voice to the technologies that Trane has developed and the benefits that they provide to its customers around the world.

Tech Session: Air Filtration Design Standards

Speaker: Stephen Goss, Partner at Filtrex Corporation

The tech session will cover the following topics:

- Design Standards to follow for Air Filtration
- Particulate Air Filtration 101: MERV ratings; HEPA ratings; Type and sizes based on specifications; Energy Ratings.
- Carbon/Molecular Filtration 101: Carbon; Permanganate; Types and efficiencies of removal.
- New Equipment types of technology currently on the market and where to apply them including AHU Filtration, UV-C, Dust Collection, Scrubbers (wet, biological, carbon), Kitchen Exhaust, Bi-polar ionization, BIBO and bubble tight dampers, HEPA, Screens, etc.

Stephen Goss is partner at Filtrex Corporation out of Baltimore, MD. Filtrex primarily focuses on particulate and gas phase filtration including but not limited to HEPA, ULPA, dry chemical scrubbers, clean room terminal HEPA and fan filter units, bubble tight dampers, filter boxes, UV-C, dust collection and containment housings.



The May 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
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 treasurer@ashrae-balto.org
Secretary P:410-880-0850 x123	Brad Watkins F: 301-490-7156 secretary@ashrae-balto.org
Board Member P:410-329-8100	Steph Kunkel F:301-490-7156 asstsecretary@ashrae-balto.org
Board Member P:410-793-0202	James Cote F:410-721-7472 gov2@ashrae-balto.org
Board Member P:443-977-9741	Sherry Abbott-Adkins F:410-374-5471 senioradvisor@ashrae-balt.org
Past-President P:410-645-1552	Dave Lawson F:410-645-1616 pastpresident@ashrae-balto.org

Committee Chairs

Attendance/Recpt. P:443-224-1594	Theresa R Schroeder F:410-243-5716 reservations@ashrae-balto.org
Chapter Programs P:410-316-7800	Dave Reese F:410-316-7900 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: membership@ashrae-balto.org
Refrigeration P:410-403-2200	Jon Olmstead F:410-403-2225 refrigeration@ashrae-balto.org
Research Promotion P:410-531-1600	Jeff Shook F:443-561-1601 research@ashrae-balto.org
Scholarship P:410-298-2400	Saqib Ashraf F:860-353-2462 scholarship@ashrae-balto.org
Student Activities P:410-329-8100	Sam Philipp F: 410-472-2200 studentacts@ashrae-balto.org
Student Activities P:410-652-5437	Robert Broczowski F: 410-646-4738 studentacts@ashrae-balto.org
Young Engineers P:443-921-8718	Kaylee Haupt F:410-377-2543 yea@ashrae-balto.org
CTA P:410-316-7800	Dave Reese F:410-316-7900 cta@ashrae-balto.org
CTTC P:410-316-7800	Dave Reese F:410-316-7900 cttc@ashrae-balto.org
Thermogram P:443-832-5733	Kelly Brennan F:410-381-7654 newsletter@ashrae-balto.org
Engineers Week P:410-329-8100	Sam Philipp F: 410-472-2200 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 Christmas@ashrae-balto.org
Golf Outing P:443-561-1600	R L Gladden F:443-561-1601 golf@ashrae-balto.org
Women in Engineering P:240-542-5568	Jennifer Leach F:301-490-7156 wie@ashrae-balto.org
Grassroots Activities P:443-348-2017	Matthew Grice F:410-298-3940 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

Next month is May and with it comes the last formal meeting of the 2013-2014 ASHRAE year. The last few years we have used May as Student Night to invite all of the high school students who participated in the student challenge in March to attend and receive recognition for their participation. Please try to engage the students and parents in attendance by sitting with them at dinner or chatting them up during the Network hour.

Many thanks to Brad Watkins of Cummins-Wagner and Paul Rohrs of Lochinvar 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: Craig Parks. Craig is the current treasurer and has been extremely diligent as our accounting representative for the Board of Governors. In addition to his many duties as treasurer, Craig has begun planning programs for next year and is currently focused on continuing the success of the Product Show. Craig is following in Dave Reese's footsteps and is continuing to improve on the already successful Product Show. With Craig's dedication this year's kickoff meeting/product show is bound for success.

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 May 5th at the ESB. 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) 5th Annual Fishing Event: April 25th, 2016 (tentative)
- 2) May Meeting: May 5th, 2016 at the ESB
- 3) Golf Outing: June 3rd, 2016
- 4) 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:

- Chapter member that submits for a bEQ rating
- Chapter member presentation on bEQ to an outside organization
- 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.

Lastly, we have launched our new website, so please check out the new site, <http://ashrae-balto.org/>. The site is still under construction, but all feedback is greatly appreciated. Thank you for your support of the Baltimore Chapter of ASHRAE.

See you soon ,

Adam



2015-2016

Meeting Schedule

Please mark you 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: Air Filtration Design Standards	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



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 |



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

