

# ASHRAE MONITOR

JANUARY 2019

## Chapter Officers

### President

Christian Guerra

### President Elect

Will Castelvechi

### Vice President

Will Castelvechi

### Treasurer

Matt Waltz

### Secretary

Jaron Waters

### Governors

Brian Derby

Marc Robillard

Dan Johnston

## Committee Chairs

### Chapter Technology Transfer

Will Castelvechi

### Grassroots Government Advocacy

Brian Derby

### Membership Promotion

Marc Robillard

### Research Promotion

Rich Roberts

### Student Activities

Gary Hayden

### Sustainability

Adam Forshey

### Student Advisor

Nathan Luetke

### Website Editor

Scott Almond

### Young Engineers in ASHRAE (YEA)

Jaron Waters



*Chapter cannot act on behalf of Society*

## Chapter Meeting

Thursday, January 10<sup>th</sup>

Steve Lowe

Will Present

### Cooling Tower Fundamentals

\$20.00 members, \$25.00 non-members

The meeting will be held at Clark Nexsen in Virginia Beach Town Center. Food will be served at 11:45.

The meeting will start at 12:00. RSVP

Clark Nexsen:

[4525 Main Street Virginia Beach, VA 23462](http://4525>MainStreetVirginiaBeach,VA23462)

Season passes available on the chapter website.

Get nine lectures for the price of six.

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## Upcoming Events

ASHRAE HRC

Chapter Meeting

January 8<sup>th</sup>, 2019

[2019 ASHRAE Winter Conference & AHR Exp](http://2019.ASHRAEWinterConference&AHRExp)

Board Meeting

January 23<sup>rd</sup>, 2019

VISIT US

<http://hamptonroads.ashraechapters.org/>

FOLLOW US



## ASHRAE's Mission and Vision

**Mission:** To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

**Vision:** ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

## Get Involved

Are you looking to get involved with an active community of professionals? Would you like opportunity to grow into a leadership position? We have several opportunities available and are willing to work with your schedule and interest. Please reach out to any of the Chapter Officers or Committee Chairs. We look forward to hearing from you.

E-Mail

[ASHRAEHRC@gmail.com](mailto:ASHRAEHRC@gmail.com)

## The Presidents Pen

Dear Members,

Happy New Year! From the board, we hope you had a fun and relaxing Holiday. We are excited to jump into 2019. This year is our one in eleven-year opportunity to host the ASHRAE Region III Chapter's Regional Conference (CRC). Also, we are pleased to announce that our remaining 2018-2019 lecture line-up is almost filled, see the 2018-2019 events calendar and stay tuned for additional events as well.

For those who were fortunate enough to attend the November meeting at Minton & Robinson I think we'd agree it was a terrific event. For those who could not make it, the event provided hands on demonstration of duct construction, insulation, lining, and testing. Thank you to both Warwick Plumbing & Heating and Minton & Robertson for planning the tour. We look forward to providing similar tours in the future; if you have a tour/topic of interest please let the board know.

For our December meeting, it was our privilege to have Jon Perry with Hoffman & Hoffman present on the importance and pitfalls of in specifying refrigeration system testing and construction methods. This was a requested, encore performance, from the 2016-2017 year and a very well attended event. Jon is a leading industry resource right here in the Hampton Roads Chapter.

At our December meeting we were pleased to present Alexander Trochez with our first award of the ASHRAE Chapter Foundation Scholarship. Alex is a recent ODU graduate and is continuing school to achieve his master's degree while he starts his career at NASA. Special thanks to Brian Derby who led the process in creating and awarding this scholarship. If you know someone who is studying to enter the HVAC/R industry, or similar field, please send them a copy of the ASHRAE Scholarship Application (attached). The deadline is January 31<sup>st</sup>.

Lastly, we must say good bye or "ciao" to Adam Forshey. Adam accepted a 3-5 year civil service position in Italy. His leadership as President Elect and, most importantly, E4K planner will be missed. We wish him the best on his new adventure and look forward his return.

Regards, Christian Guerra, PE



Demonstration of DALT  
Testing at Minton & Robertson



Alexander Trochez  
2018 Chapter Foundation  
Scholarship Recipient



Seton Youth Shelters provides an invaluable service to Hampton Roads by sheltering and caring for at-risk youth. They provide safety, security, comfort, and a positive future for children ages 9-17 who, through circumstances often outside their control, find themselves in serious situations. That is why we, ASHRAE HRC and IFMA, have selected Seton Youth Shelters as our E4K recipient this year. To date we have evaluated one of their facilities with the goal of improving reliability and reducing their energy use so they can apply their limited resources where they are needed most. Currently, the facility needs a new 3.5-Ton heat pump and a 280 MBH boiler upgrade. Thank you to our sponsors and to those who attended our E4K event. Your generosity is allowing us to give back to our local community.

Update: Final planning and equipment selection is underway to provide the much need boiler and air conditioner replacements. We will provide updates as work begins. We'd like to thank our Chapter Sponsor, United Energy Products, Inc., for stepping up to donate a much-needed boiler for the project.

2018-2019  
Sponsors & Donors

Thank you to the first round of sponsors who have pledged for the 2018 – 2019 season. Your commitments have us well on the way to another successful year.

From the entire board:

THANK YOU!

It's never too  
late to  
sponsor!!

2018-2019 Sponsors

*Presidential*



*Gold*



Enviro Mechanical Sales, Inc  
*We conserve your energy*



CLARK NEXSEN

*Silver*



*Chapter*



Waltz Engineered Sales Inc.



HOFFMAN & HOFFMAN, INC.



*Donors*



# What's in the News

## ASHRAE Press Releases

### [ASHRAE Publishes Updated Residential Construction Standard](#)

**ATLANTA (Dec. 18, 2018)** – ASHRAE has released an updated edition of ANSI/ASHRAE/IES Standard 90.2-2018 Energy-Efficient Design of Low Rise Residential Buildings.

### [ASHRAE Announces Call for Papers for Energy Research and Development Conference](#)

**ATLANTA (Nov. 28, 2018)** – ASHRAE has announced a call for papers for the 7th International Conference On Energy Research and Development (ICERD), Nov. 19-21, 2019 in Kuwait.

### [ASHRAE Leadership Addresses Canada House of Commons Standing Committee on Natural Resources](#)

**ATLANTA (Nov. 21, 2018)** – Sheila J. Hayter, P.E. 2018-2019 ASHRAE president, and Darryl K. Boyce, P.Eng., 2018-2019 ASHRAE president-elect, testified before the Standing Committee on Natural Resources at the House of Commons of Canada on Tuesday, Nov. 20.

### [ASHRAE and Partners Release 2018 International Green Construction Code](#)

**ATLANTA (Nov. 8, 2018)** – Groundbreaking model for building codes helps municipalities save money, protect resources and increase the resilience, safety and standards of living for communities across the globe

## Another ASHRAE Plug

It's winter time, which, for us, mean heating season. A quick search on ASHRAE's website yields countless articles on optimizing boilers and considerations for boiler design. If you'd like to contribute your knowledge and experience, consider submitting an article or getting involved with one of ASHRAE's many Technical Committees (TC's). If, for example, you have a passion for heating or hydronic systems consider a roll with [ASHRAE TC Section 6 HEATING EQUIPMENT, HEATING AND COOLING SYSTEMS AND APPLICATIONS](#).

## 2015 Code Changes

As many of you are aware, the Virginia Building Code adoption of the 2015 International Codes took effect in September last year; updating from 2012. The International Code Council produced a series of videos to review the code changes from 2012 to 2015. Be sure to watch these videos before your next project which cover the IMC, IPC, and IFGC.

<https://www.iccsafe.org/codes-tech-support/codes/2015-changes/key-changes-ipc-imc-ifgc/>

## Anti-Terrorism UFC Update

A new, heavily revised, UFC 4-010-01 was released on December 12<sup>th</sup>. Section 3-19 "STANDARD 18. EMERGENCY AIR DISTRIBUTION SHUT-OFF" has been expanded to cover various system types and clarify the intended operation during an emergency shut down event.

<http://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc/ufc-4-010-01>

## New Members

Jaron Waters

Deborah Albero-Darata

Matthew Lopez

Nathan Luetke

Frances Franklin

## New Student Members

Micah Bergston

Timothy Packard

Steven Blea

Joseph McUmber

Shahbaz Bhati

Graham Charboneau

Ahmed Bin Hjories

## Bulletin Board

The following UFC (Unified Facilities Criteria) were updated or replaced in September. Be sure review for your current and future DoD projects.

### [UFC 1-200-02](#)

"High Performance and Sustainable Buildings, with Change 3"

### [UFC 1-230-03](#)

"Water Treatment, with Change 1"

### [UFC 3-400-02](#)

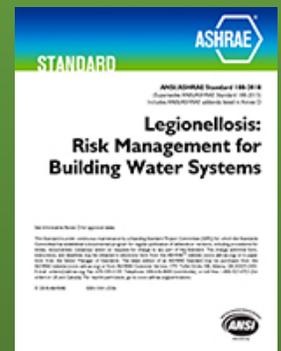
"Design: Engineering Weather Data"

## 2019 Region III Chapter Regional Conference



ASHRAE HRC will host the Region III CRC at the new Hilton branded hotel "The Main", in downtown Norfolk. We are very excited to host this conference again, and will be sending a request for sponsors and technical presenters in the coming months. We have many positions to fill, and are still looking for volunteers to help with the planning and hosting activities. Initial planning for the CRC has begun and will continue through the event. We need all hands on deck for this important event, and we are looking for chapter members to help in our hospitality, publicity, reception, registration, and sponsorship committees. Please contact the CRC General Chair, [Brian Derby](#) or Vice Chair [Nancy Mitchell-Veeck](#) for more information.

"The Main" - August 14<sup>th</sup>, 15<sup>th</sup>, & 16<sup>th</sup> - 2019



## 2018-2019 Annual Sponsorship Packages

Hampton Roads ASHRAE Chapter is pleased to offer our single contribution sponsorship program again for the 2018-2019 year!

### Presidential - \$3,500

- Eight E4K tickets
- One Golf tournament foursome
- Four season passes
- Large ad/company call out in chapter newsletter
- Large ad/company call out on event banners

### Gold - \$2,500

- Four E4K tickets
- One golf tournament foursome
- Two season passes.
- Medium ad/company call out in chapter newsletter
- Medium ad/company call out on event banners

### Silver - \$1,500

- Four E4K tickets
- Two season passes
- Small ad/company call out in chapter newsletter
- Small ad/company call out on event banners

### Chapter - \$500

- Two E4K tickets
- One season pass
- Name recognition in chapter newsletter
- Name recognition on event banners.

Sponsorship sign up is available on our website at  
<http://hamptonroads.ashraechapters.org/sponsors.html>

Packages above are customizable based on sponsor needs.  
 Please send special requests to [ashraehrc@gmail.com](mailto:ashraehrc@gmail.com).

**For Payment by Check:**  
 Matt Waltz  
 48 Davis Avenue  
 Newport News, VA 23601

2019

January	February	March	April
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# HELP WANTED

We have published the dates for our monthly Board Meetings. If you'd like to learn more about the behind the scenes of ASHRAE reach out to any of the Chapter Officers and we'd be glad to extend you an invitation. With CRC next August there will be ample opportunity to get plugged in.

## Seasons Pass

Consider a season pass to our chapter meetings. For the Member Price for six meetings you get the access to all nine! Click the "Season Pass" option when you register for the September or October meeting. Season's Passes are open to all active members.

# 2018-2019 Chapter Events Calendar

Month	Date	Event
July 2018	1 <sup>st</sup>	Start 2018-2019 Calendar Year
	25 <sup>th</sup>	Board Meeting
August 2018	16 <sup>th</sup> – 18 <sup>th</sup>	Region III CRC
	22 <sup>nd</sup>	Board Meeting
September 2018	19 <sup>th</sup> 27 <sup>th</sup>	Board Meeting <b>ASHRAE / IFMA E4k Pig Roast</b>
October 2018	2 <sup>nd</sup> 24 <sup>th</sup>	<b>Chapter Meeting – Karine Leblanc ASHRAE DL</b> Board Meeting
November 2018	13 <sup>th</sup> 14 <sup>th</sup>	<b>Chapter Meeting &amp; Technical Tour</b> Board Meeting
December 2018	4 <sup>th</sup> 4 <sup>th</sup>	<b>Chapter Meeting</b> Board Meeting
January 2019	10 <sup>th</sup>	<b>Chapter Meeting – Steve Lowe</b>
	12 <sup>th</sup> – 16 <sup>th</sup>	"Cooling Tower Fundamentals"
	23 <sup>rd</sup>	ASHRAE Winter Conference – Atlanta, GA Board Meeting
February 2019	5 <sup>th</sup> 20 <sup>th</sup>	<b>Chapter Meeting</b> Board Meeting
March 2019	5 <sup>th</sup>	<b>Chapter Meeting – Brett Monteleone</b>
	20 <sup>th</sup>	"Chiller Fundamentals" Board Meeting
April 2019	2 <sup>nd</sup> 17 <sup>th</sup>	<b>Chapter Meeting – Rick Alpert</b> "Lithium Ion Battery Protection" Board Meeting
May 2019	7 <sup>th</sup>	<b>Chapter Meeting – Devin Abellon ASHRAE DL</b>
	15 <sup>th</sup>	The (un) Ethical Engineer Board Meeting
	TBD	<b>ASHRAE / IFMA Golf Tournament</b>
June 2019	19 <sup>th</sup> 22 <sup>nd</sup> – 26 <sup>th</sup>	Board Meeting ASHRAE Annual Conference – Kansas City, MO
August 2019	14 <sup>th</sup> – 16 <sup>th</sup>	Region III CRC @ The Main, Downtown Norfolk

Check our website for the most up to date information.

<http://hamptonroads.ashraechapters.org/>



## SCHOLARSHIP APPLICATION

**PERSONAL DATA** *(Please type or print in ink)*

Last Name, First, MI	Preferred Telephone No.	E-mail
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Student's Home Address

City	State or Province	Country	Zip Code
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Student's Campus Address

City	State or Province	Country	Zip Code
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Birthplace	Date of Birth	Citizenship	Gender
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*(Additional relevant information can be provided in the spaces above)*

**EDUCATION**

High School	Location	Year of H.S. Graduation or GED	SAT/ACT Scores
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College or University Now Attending	Location	Major Program of Study
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College or University Accepted to (High School Seniors Only)	Location	Major Program of Study
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Cumulative Grade Point Average	Class Rank ( ___ of ___ )	What is the base of the GPA at your school? (What number does "A" represent?)
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No. of Terms to Complete College Degree (excluding current term)	Anticipated Month & Year of College Graduation
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**PERSONAL INFORMATION** *(Provide responses as indicated.)*

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ASHRAE's [Mission](#) is to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world. What are your goals and interests, and how do they apply to ASHRAE's Mission?

ASHRAE's [Vision](#) is to be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating. Describe your participation in volunteer organizations and any volunteer activities related to ASHRAE's Vision.

**PROFESSIONAL DATA** *(Supply a brief resume of your work experience in chronological order starting with the most recent)*

Job Title	Duties	Dates of Employment

**HAMPTON ROADS ASHRAE CHAPTER CONTACT**

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Chapter Contact Name \_\_\_\_\_ Phone/E-Mail: \_\_\_\_\_

**SCHOOL AND COMMUNITY SERVICE ACTIVITIES** *(List your extracurricular activities starting with the most recent.)*

--

List below membership in professional or honorary societies/organizations, including office(s) held, if any

**Society/Organization**

**Office**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**REFERENCES** *(Please list three references – A personalized signed letter of recommendation is required from each, excluding family members. If providing a reference from ASHRAE Faculty Advisor, Nathan Luetke, no other references are needed.)*

1. Reference (Suggested: Instructor or Faculty Advisor)                      E-mail/Phone Number

2. Reference (Suggested: Former or Current Employer/Co-worker)      E-mail/Phone Number

3. Reference (At-Will/Other)    E-mail/Phone Number

**FINANCIAL NEED** *(Describe your financial need.)*

--

Have you been awarded any scholarships or grants for the upcoming academic year? \_\_\_\_\_ If yes, please provide details

--

**Scholarships are awarded based on the following criteria, in order of importance. The Board of Governors reserves the right to waive any or all of the criteria, in an equitable manner, if necessary to award the scholarship to a qualified applicant. Students are encouraged to apply even if they do not meet all of the criteria listed.**

1. Full-time enrollment in an accredited undergraduate engineering or engineering technology program. Enrollment in an undergraduate architecture program accredited by the National Architectural Accrediting Board (NAAB) is acceptable.
2. Involvement with ASHRAE Student Chapter.
3. Demonstrated leadership ability (activities, leadership roles, community service, etc.)
4. Work Ethic (summer jobs, part-time jobs, etc.)
5. A cumulative grade point average (GPA) of at least 2.7 on a scale where 4.0 is the highest and/or a class standing of no less than the top 30% evidenced by an official transcript of grades or written statement from a school administrator.

**IMPORTANT: Submit completed application with the following supporting documents on or before the application deadline:** *an official transcript of grades (if college grades are not available by the application deadline, submit an official high school transcript and verification of enrollment or letter of acceptance from a post-secondary educational institution).* Official transcripts must be mailed and received in a separately sealed envelope postmarked on or before the application deadline. Reference letters must be signed. Re-applications accepted from former scholarship recipients and applicants provided they meet current criteria.

I believe all the above information to be true and complete and I hereby apply to the Hampton Roads Chapter of ASHRAE for a Scholarship. I certify that I am not receiving full funding for my education from an employer, any branch of the Armed Services or other organization. I authorize ASHRAE to obtain and review my academic records (including but not limited to official transcripts). In signing below, I agree to hold ASHRAE harmless from any and all liability for damage, injury, or loss sustained by me in connection with this application, including but not limited to, the acquisition by ASHRAE of my academic records.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Signature of Parent or Guardian (required if applicant is under 18 years of age)

**Submit application & all supporting documents on or before the application to:**

[ashraehrc@gmail.com](mailto:ashraehrc@gmail.com)

Subject: Hampton Roads ASHRAE Scholarship