October ASHRAE Meeting

**Topic:** Life Safety Dampers (Fire & Smoke)

**Presenter:** Travis Kreft, Greenheck Dampers

**When:** Monday October 16th, 2017 at 12pm

**Where:** City Grill
384 East Ave, Rochester

**Cost:** $25.00

Please RSVP by noon Friday, October 13th to Bret Fryover
fryoverb@erdmananthony.com

Or
ASHRAERochester@gmail.com

PDH Approved!
Chapter Officers

President
William J. Clark
(585) 303-0729
william.clark@DayAutomation.com

President Elect
Paul Kenna, PE
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rhusdon@ibceng.com

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sdear@crosbybrownlie.com

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Samuel.scorsone@wegmans.com

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mdevlin@bergmannpc.com

Webmaster
Steve Dear (585) 325-1290
sdear@crosbybrownlie.com

Nominating / Past President
Jeff Close (585) 289-6816
Jeff.close@pres-services.com

Buyer’s Guide
TBD
# SAVE THE DATE

We are still working on programs for the year, but save the date!

## ASHRAE 2017-2018 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Theme</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, 10/16/2017</td>
<td>&quot;Life Safety Dampers&quot; (Fire and Smoke)</td>
<td>PDH Approved</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td></td>
<td>Presented By: Travis Kreft from Greenheck Dampers</td>
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<tr>
<td>Monday, 11/13/2017</td>
<td>TBD</td>
<td>History Review (PDH Pending)</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td>Monday, 12/11/2017</td>
<td>&quot;Overview of Refrigeration Compressors&quot;</td>
<td>Refrigeration Night Resource Promotion PDH Approved</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td></td>
<td>Presented By: Michael Collins, Eagle Bay Refrigeration</td>
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</tr>
<tr>
<td>Monday, 1/8/2018</td>
<td>TBD</td>
<td>(PDH Pending)</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td>TBD - Feb 2018</td>
<td>ASHRAE Valentines Dinner Dance</td>
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<td></td>
</tr>
<tr>
<td>Monday, 2/12/2018</td>
<td>TBD</td>
<td>Membership Promotion (PDH Pending)</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td>Monday, 3/12/2018</td>
<td>TBD</td>
<td>Resource Promotion (PDH Pending)</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td>Monday, 4/9/2018</td>
<td>TBD</td>
<td>Refrigeration Night (PDH Pending)</td>
<td>City Grill @ 12:00 PM</td>
</tr>
<tr>
<td>TBD - May 2018</td>
<td>Annual Picnic / Golf Outing</td>
<td></td>
<td>11:00 AM Golf 5:30-8:00 Picnic</td>
</tr>
</tbody>
</table>

## Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

## Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.
President’s October Message

October Newsletter 2017
President’s Message

We kicked off the 2017-2018 ASHRAE program year on Monday, September 18th with our annual Clambake at the Burgundy Basin Inn. Thank you to everyone that attended. Thomas Lawrence, Ph. D. from the University of Georgia presented on “The Coming of Age of a Smart Grid and Smart Buildings.” Dr. Lawrence is an ASHRAE Distinguished Lecturer that we were fortunate to have come visit us. It was very interesting to learn how the smart grid will interact with our buildings and systems.

On August 17-19, 2016, Jeff Close (Delegate) and I (Alternate) attended the ASHRAE Centralized Regional Conference (CRC) for Region I hosted by the Long Island chapter. The conference was very informative for us to have another successful year. At the conference, the Presidential theme: “Extending Our Community” put together by Society President Bjarne Olesen was presented. His message focused on three directives. First is to extend our global community. Second is to extend our technological horizons. Third is to extend our value to members. The Rochester Chapter of ASHRAE will work to support these directives this year through our chapter program and events. If you have any suggestions for how we can better serve you please us know.

Please continue to check out our website at www.rochester.ashraechapters.org for information on upcoming chapter meetings, current officer list and contact information, chapter newsletters, and more! Also take a minute and like us on Facebook at www.facebook.com/#!/ashraerochester.

Bill Clark, P.E., CEM
2017-2018 President
Rochester Chapter
October Meeting Info

Please consider joining us for this upcoming monthly meeting and/or please forward this e-mail to anyone you may think would be interested in attending or benefit from this presentation.

October ASHRAE Meeting  << PDH APPROVED!>>

Date: Monday, October 16, 2017

Location: City Grill

Time: 12:00 PM Lunch Buffet ... Presentation to start approx. 12:30pm

Cost: $25.00

Speaker: Travis Kreft from Greenheck Dampers

Topic: Life Safety Dampers (Fire & Smoke)

Note: (1) PDH—Approved!

Remember, as an option, we have on-line payments available via PayPal. (no PayPal account required)

<< Pay for Meeting Registration online via PayPal >>

Use the following link: http://rochester.ashraechapters.org/meetings.html

Cash or check payment is still accepted at the door with your reservation.

Please RSVP no later than noon Friday October 13th to Bret Fryover

Phone: 585.563.5152  or e-Mail ... ASHRAERochester@gmail.com or fryoverb@erdmananthony.com
Highlights from September ASHRAE Meeting

The Rochester Chapter came away with many awards for the 2016-2017 year. The awards were handed out during the August Region I CRC in Long Island.

(Above) Bill Clark, Chapter Program Outstanding Performance Award

(Left) Jeff Close presents certificate to Life Member Al Rodgers

(Left) Scott Edwards is presented with the Black Ink Award

(Above) Jeff Close presents the Research Promotion certificate and award to Matt Devlin

(Right) Jeff Close presents Chris Hartmann with Participation Certificate

(Above) Jeff Close presents Chris Hartmann with Participation Certificate

(Left) Steve Maybeck, Jim Browe, Jodi Scott & Jeff Close

(Above) Bill Clark, Chapter Program Outstanding Performance Award
Job Postings & Help Wanted

This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, Bill Clark at (585) 303-0729 or by email william.clark@DayAutomation.com.

This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

President Award Of Excellence

Chapter: ROCHESTER
Fiscal Year: 2017-2018

<table>
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<tr>
<th>Category</th>
<th>Par</th>
<th>Min Points</th>
<th>Total Points</th>
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<tr>
<td>Chapter Operations</td>
<td>1200</td>
<td>600</td>
<td>845</td>
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<tr>
<td>Chapter Technology Transfer</td>
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<td>450</td>
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<tr>
<td>Electronic Communications</td>
<td>500</td>
<td>250</td>
<td>50</td>
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<td>Grassroots Government Advocacy</td>
<td>650</td>
<td>500</td>
<td>50</td>
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<tr>
<td>Historical Criteria</td>
<td>300</td>
<td>100</td>
<td>155</td>
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<td>Membership Promotion</td>
<td>800</td>
<td>500</td>
<td>770</td>
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<tr>
<td>RP</td>
<td>1050</td>
<td>800</td>
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<tr>
<td>Student Activities</td>
<td>500</td>
<td>300</td>
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</tbody>
</table>

Like us on Facebook!

Visit our new Facebook page by searching for “ASHARE Rochester” on Facebook. Any ideas for additions or improvements email to Mark Kukla at mark@airsystemsbalancing.com. Keep up to date with current events and photos from recent meetings.
**Research Promotion Report**

We are off to a great start for our 2017-2018 campaign to support ASHRAE Research. A big thanks to Gray Metal Products for renewing their Golden Circle level support at the beginning of the campaign to start us off right! Currently we have received $10,450 of our 20,500 goal! This is a great start, but with our goal increasing 5% over last year, we still have a ways to go to raise the funding necessary to meet our organization’s research needs which are so vital to our industry. This month, I’d like to highlight the importance of where our research funding comes from, and what it supports.

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**HOW IS ASHRAE RESEARCH USED?**

- Update the Society’s standards and guidelines
- Special ASHRAE publications
- Articles published in the ASHRAE Journal

**HOW IS MONEY RAISED?**

- Personal contact made by volunteers
- Special contracts with major donors
- Direct solicitation of ASHRAE members at the time of dues billing

**WHAT FUNDS ASHRAE RESEARCH?**

- Contributions from members and corporations
- A percentage of member dues
- Income from the ASHRAE cosponsored AHR Expo
- Interest earned on the Research Reserve and ASHRAE Foundation

**HOW DOES ASHRAE RESEARCH HELP ME?**

- Decreasing the spread of airborne diseases
- Conserving energy in hot and humid climates
- Understanding the relationship between occupant health and ventilation rates
- Decreasing the risk of spoiled food

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Thanks again for all your support and I look forward to seeing you at the next Rochester Chapter Meeting.

Matt Devlin, EIT, CEM, CPMP

RP Chair

[www.ashrae.org/contribute](http://www.ashrae.org/contribute)
ASHRAE Student Activities – An Introduction to Engineering

Last year we had several volunteers who spoke to high school students about Engineering and our careers. This was met with great success and gratitude from the students and their teachers. Our goals this year is to expand our reach to a few more schools and educate as many students as possible.

It is time to reach out to identify ASHRAE community members who are passionate about Engineer and ASHRAE. By giving them an opportunity to interact with ASHRAE members, we can help them determine the answer to a very valuable question: “Is engineering something I may be interested in?” The answer may be “yes”, but the answer will also be “no” from most of the students, and both answers are equally important to each students’ development. From there, we may spark something in a handful of students who wish to learn more about engineering, maybe even HVAC.

Please contact me if you are interested in presenting, or if you have other ideas/opportunities that the ASHRAE community can use to help the next generation of engineers. Always be teaching your replacement!

See everyone at the monthly meetings,

Rob Hudson, PE, CEM, BEMP
IBC Engineering and ASHRAE Student Activities Chair
rhudson@ibceng.com
# Meeting Minutes

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Role/Position</th>
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<tbody>
<tr>
<td>X</td>
<td>Bill Clark</td>
<td>President / CRC Alternate</td>
</tr>
<tr>
<td>X</td>
<td>Paul Kenna</td>
<td>President Elect / Program</td>
</tr>
<tr>
<td></td>
<td>Tom Streber</td>
<td>Treasurer</td>
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<tr>
<td>X</td>
<td>Mike Benedict</td>
<td>Secretary</td>
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<td></td>
<td>Jeff Close</td>
<td>Immediate Past President &amp; Nominating / CRC Delegate</td>
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<tr>
<td>X</td>
<td>Sam Scorson</td>
<td>Board of Gov. (3) &amp; Refrigeration Co-Chair</td>
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<td>X</td>
<td>Steve Dear</td>
<td>Board of Gov. (3) &amp; Website Chair</td>
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<tr>
<td>X</td>
<td>George Herman</td>
<td>Board of Gov. (2) &amp; Membership Promotion Chair (MP)</td>
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<tr>
<td>X</td>
<td>Marjani Wilson</td>
<td>Board of Gov. (1) &amp; Grassroots Government Advocacy Co-Chair</td>
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<td>X</td>
<td>Jeff Wiedrick</td>
<td>Board of Gov. (1) &amp; Chapter Technology Transfer Chair (CTTC)</td>
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<td>X</td>
<td>Matt Kremers</td>
<td>Board of Gov. (1) &amp; Young Engineers in ASHRAE Chair (YEA)</td>
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<td>X</td>
<td>Brett Fryover</td>
<td>Attendance Co-Chair</td>
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<td>Tim Duprey</td>
<td>Attendance Co-Chair</td>
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<td></td>
<td>Jake Hall</td>
<td>Historian Chair</td>
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<td></td>
<td>Scott Edwards</td>
<td>Newsletter Editor</td>
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<tr>
<td>X</td>
<td>Matt Devlin</td>
<td>Resource Promotion Chair (RP)</td>
</tr>
<tr>
<td>X</td>
<td>Rob Hudson</td>
<td>Student Activities Chair (SA)</td>
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<td></td>
<td>Al Rodgers</td>
<td>Awards &amp; Recognition Chair</td>
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<tr>
<td></td>
<td>Bill Murray</td>
<td>Education</td>
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<td></td>
<td>Mark Kukla</td>
<td>Publicity</td>
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<td></td>
<td>Jim Browe</td>
<td>Picnic/Golf Chair</td>
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<tr>
<td></td>
<td></td>
<td>Buyers Guide</td>
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<tr>
<td>X</td>
<td>Jody McGarry</td>
<td>Valentine's Dinner Dance</td>
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<td></td>
<td>Mike Nohle</td>
<td>Refrigeration Co-Chair</td>
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<tr>
<td></td>
<td>Tom Burke</td>
<td>Grassroots Government Advocacy Co-Chair</td>
</tr>
<tr>
<td>X</td>
<td>Jaimee Wilson</td>
<td>Women in ASHRAE</td>
</tr>
<tr>
<td>X</td>
<td>Michelle Sommerman</td>
<td>Women in ASHRAE</td>
</tr>
</tbody>
</table>
1. Call to Order Bill Clark
2. Roll Call Mike Benedict
3. Review and Approval of Previous Meeting Minutes All
   • Motion - Tim, Second - Paul
4. Treasurer Tom Streber
   • Current Statement Balances
   • 2017-2018 Budget
     i. Budget items have been allocated for various committees and education, check for availability!
     ii. Motion - Jeff, Second - Brett
5. President Elect/Program Paul Kenna
   • Schedule
   • Gift & Thank You cards
     i. $25 Visa gift card
   • Evaluation forms
6. Attendance Bret Fryover
   • Current reservations
     i. 47 - (117 last year) PDH approval should help, last week before event is rush
     • Tracking members vs. non-members
       i. Set up to do so. Challenging for clam and golf as companies buy several tickets without names attached
     • Award for perfect attendance in 2016-17
       i. Does board approve of $50 gift card?
   1. Unanimous approval for 2016-2017 (one recipient)
7. CTTC Report Jeff Wiedrick
   • Project submission by April 1, 2018
     i. Should we put a flyer together to advertise for project awards?
     ii. Early to push it but we need to start thinking about how to get more submissions
     iii. Qualified project timeline - needs occupancy by 9/2017. Applications can be submitted early.
     iv. Newsletter article to be submitted next month
     v. Time at the October meeting will be set aside for CTTC awareness with flyers and additional info on tables
8. Membership Report George Herman
   • Centralized Training
     i. Flying to Atlanta tonight (if Hurricane Irma allows) training scheduled for tomorrow
     ii. CRC training last month
   • Started on membership advancement
   • Current members
     i. 279 Total
     ii. 94 Associate
     iii. 31 Student
9. Student Activities Report Rob Hudson
   • Student chapter
     i. Waiting for school to start - now ready to continue pressing MCC and RIT
ii. Looking forward to February Engineers Week
iii. Possible budget allocation for future

10. Education Report  Bill Murray
   • Scholarship
     i. Jeff Close in communication with RES to manage funds, applications and awards.
     ii. Board will review RES information and original intent of donors.

11. YEA Report  Matt Kremers
   • 2017-18 Events
     i. Fall social
     ii. Leadership weekend
     iii. Controls tech section?
     iv. Duct sizing / fan selection? Combine with student activities?
   • Contact list update

12. Awards & Recognition Report  Al Rodgers
   • Awards from CRC to be presented at clambake

13. Resource Promotion Report  Matt Devlin
   • Current vs. Goal
     i. Goal increased by society
     ii. Currently 54%
     iii. Gray Metal Golden Circle donor again!
   • Full Circle Contributions
     i. Due 11/15/17
     ii. Looking for two volunteers to dedicate toward scholarship
        1. Paul
        2. Bill
   • Donor Recognition Boards
     i. (2) Prototypes provided, one for Gray, one for Major donors and Honor Roll
     ii. $150 voted on and approved for banners
   • Combining efforts on sponsorships? - corporate sponsorships available to sponsor all yearly events with one check.
     i. Alleviate solicitations

14. Refrigeration Report  Mike Nohle/Sam Scorsone
   • Refrigeration Meeting
     i. December - Michael Collins from Eagle Bay
   • Working on refrigeration night in April

15. Grassroots Government Advocacy Report  Marjani Wilson/Tom Burke
   • Marjani attended CRC
   • Planned activity
     i. “Day on the Hill” - meet with local officials
     ii. Reviewed PAOE and MOPS

   • Committee submissions
   • Newsletter deadline
   • RES deadline

17. Buyers Guide  TBD
• How should we proceed with this?
  i. Has an interested individual
• Should we rename to Sponsors and do business card ads?
  i. This seems to be a more appealing option

18. Historian Report
   • Planned activity
   • Sent board to CRC

19. Publicity Report
   • Mark Kukla

20. Website Report
   • Steve Dear/Kevin Wind
   • Coordinate updates with Kevin

21. Nominating Report
   • Jeff Close

22. Valentines Dinner Dance Report
   • Jody McGarry
   • Schedule & Venue
     i. Looked at 4 places
        1. Winter Garden at Monroe’s - B&L
           a. Strict requirements with long lead times
        2. Strathallan Rooftop
           a. Leading option
           b. Waiver of administrative fee would be processed as donation with recognition
        3. Hyatt
           a. Not impressed
        4. Century Club
           a. Too small

23. Golf/Picnic Report
   • Jim Browe
   • Push event back a week(s)?

24. Presidential Award of Excellence (PAOE)
   • Committee chairs - stay abreast

25. New Business:
   • MBOs
     i. Due to Bill
     ii. Due to RVCs by 10/1/17
   • George - October speaker wondering about logo removal
     i. Title page and contact info pages only and will receive recognition at introduction

26. Old Business:
   • 2016-17 Audit and Audit Committee
     i. Paul to reach out
   • Lynn Bellenger Hall of Fame Award Nomination
   • Centralized Regional Conference (CRC)
     i. Four from Rochester attended.

27. Set next BOG Meeting date / time / place.
   • Friday, October 13 @ 7:30 AM, Day Automation Office

28. Adjourn 9:05
What You’ll Get With Your ASHRAE Student Membership!

What’s “Cool” In ASHRAE
- ASHRAE promotes energy efficiency, savings and recovery
- ASHRAE reports on building controls, automation and integration
- ASHRAE focuses on green building issues and green technology
- ASHRAE maintains standards for indoor air quality
- ASHRAE promotes solar and other alternative energy sources
- ASHRAE offers certification programs, online learning opportunities and courses and seminars at ASHRAE Conferences

How Can ASHRAE Help You?
- Provide access to new technology
- Offer professional development opportunities
- Create opportunities for networking
- Offer online continuing education programs and eLearning programs

Student Member Benefits
- Access to members-only web pages
- Discounts on ASHRAE Handbooks
- Monthly ASHRAE Journal - print and digital
- HVAC&R Industry and Society Connections eNewsletters
- Complimentary ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Virtual online HVAC&R resume posting, job and internship searching program

ASHRAE Student Member Opportunities
- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications, go to www.ashrae.org/bookstore for more information
- Student Design Competition
- Networking with local ASHRAE Chapters
- Senior Undergraduate Project Grant Program
- At the student branch level, you’ll enjoy meeting other students with similar interests - if your school hasn’t yet started a student branch, take charge and contact a faculty member and ask for help on getting started!

You can continue your student membership after college with the ASHRAE SmartStart Program. After you graduate, you pay $20 for the first year, $50 for the second and the third years before advancing to regular member dues!

Join ASHRAE students on Facebook
Visit www.ashrae.org/students to join!
AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
ASHRAE • 1791 TULLIE CIRCLE NE • ATLANTA, GA 30322-2305 • FAX: 678-539-2212

FIRST NAME: ____________________________________________

LAST NAME: ____________________________________________

DATE OF BIRTH (mm/dd/yyyy) [ ] [ ] [ ] [ ]

Current Mailing Address: (this will be where all correspondence will be sent unless otherwise specified)
Street Address: ____________________________________________
State/Province: ____________________________________________ Postal Code: __________________ City: __________________
Email: ____________________________________________________ Alternate email: __________________

Permanant Mailing Address: (during the Summer Months and after graduation)
[ ] Check if Current Address is the same as Permanent Address
Street Address: ____________________________________________
State/Province: ____________________________________________ Postal Code: __________________ City: __________________
Email: ____________________________________________________ Alternate email: __________________

ASHRAE protects contact information provided by its members and customers. To view ASHRAE's privacy policy visit www.ashrae.org/privacy policy.

All student applicants must have the name and member number of an ASHRAE member serving as their student sponsor. If your Student Branch Advisor is an active Associate or Full member, he/she can serve as your sponsor. If you need assistance locating a sponsor, please email students@ashrae.org or call 678-539-1212. Also, you must list the name, phone and email address of your faculty advisor or course instructor.

Sponsor Name: ____________________________________________
Advisor/Instruction: ________________________________________ Phone: __________________
Email: ____________________________________________________

I would like to participate in the activities of the ____________________ ASHRAE Chapter.

School Name: ____________________________________________
Street Address: ____________________________________________ City: __________________ State: ________
Country: _________________________________________________ Postal Code: ______________
Expected Graduation Date: _________________________________
Full time: [ ] Part time: [ ] Degree: __________________________

*Classification: Freshman [ ] Sophomore [ ] Junior [ ] Senior [ ] Masters/PhD. [ ]

ASHRAE Student Membership $20.00 USD

ASHRAE Handbook - Fundamentals [ ] IP [ ] SI
(you will receive the most current edition of Fundamentals)

More than 900 pages of HVAC&R technical information and it includes the CDI (List Price $195)
Student Member Price: $49.00 USD $__________ USD Total $__________ USD

*Additional books are available at ashrae.org/studentbookstore
*Please allow up to 30 days to receive new member packets. For U.S. book orders, allow 3-5 business days from processing. For international locations and Canada, allow 7-10 business days from processing.

**Please complete the ENTIRE application to ensure accuracy. Incomplete applications will NOT be processed.**
Method of payment: [ ] VISA / Master Card [ ] American Express [ ] Diner's Club [ ] Check or money order enclosed*
Card Number: ____________ Expiration Date ____________ CW No. ____________ Amount: ____________
Signature: __________________________ Date: __________________
Print Name (as it appears on card): __________________

*Checks will be accepted in U.S and Canadian funds. Credit Card payments will be accepted in U.S. funds only.
### Region I Officers

**REGION I COMMITTEE CHAIR CONTACT INFORMATION**

<table>
<thead>
<tr>
<th>Position</th>
<th>First</th>
<th>Last</th>
<th>Company</th>
<th>Address Line</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Phone</th>
<th>Email</th>
</tr>
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<tr>
<td>Region Director and Regional Chair</td>
<td>William</td>
<td>Walker</td>
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<td>6504 Thompson Rd</td>
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<th>Chapter #</th>
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<th>Last</th>
<th>Company</th>
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## REGION I CHAPTER NEWSLETTER CONTACT INFORMATION

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## REGION I CHAPTER WEBMASTER CONTACT INFORMATION

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ASHRAE Winter Conference & AHR Expo is where passionate people come together to share knowledge, learn new things, and meet new people. This conference is a great way to immerse yourself in a growing community of incredibly smart, dedicated people. The 2018 Winter Conference will be at the Palmer House in Chicago, January 20-24, and the AHR Expo is at McCormick Place, January 22-24. And yes it will be cold in Chicago in January, but the cold never bothered us anyway.

The 2018 Show will be held in Chicago, hosting more than 2,000 exhibitors and attracting crowds of 65,000 industry professionals from every state in America and 165 countries worldwide. The Show provides a unique forum for the entire HVAC&R industry to come together and share new products, technologies, and ideas. The AHR Expo is co-sponsored by ASHRAE and AHRI, and is held concurrently with ASHRAE's Winter Conference. Your ASHRAE Conference Badge will give you access to the AHR Expo.

Technical Program

"Engineers and designers continue to advance designs to reduce the ecological impact of our built environment on the world around us. It has practically become second nature," Michael Collart, chair of the 2018 ASHRAE Winter Conference, said. "However, and seemingly more so in recent years, the industry has needed to take steps to mitigate the impact of the world around us on our built environment. This is especially the case in our transportation, government and mission critical arenas, where the loss of critical infrastructure can have severe consequences, including the loss of life. The tracks and programs for the ASHRAE Winter Conference will focus on resources to design, build, control, commission and operate facilities and infrastructure that need to not only be efficient, but resilient." In addition to the tracks below, a Refrigerant mini-track and a Residential mini-track will be presented at the 2018 AHR Expo, Jan. 22-24.

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Plenary Session Keynote Speaker
Saturday, January 20 at 9:15 p.m.

Debbie Sterling
Founder & CEO of GoldieBlax

Debbie Sterling is the Founder and CEO of GoldieBlax, an award-winning company on a mission to "disrupt the pink aisle" with toys, games, and media for girls. Debbie is an engineer, entrepreneur, and one of the leaders in the movement toward getting girls interested in science, technology, engineering, and math. She was named TIME's "Person of the Moment," Business Insider's "30 Women Who Are Changing the World," and was recently added to Fortune Magazine's prestigious "40 Under 40" list. In early 2015, Debbie was inducted as a Presidential Ambassador for Global Entrepreneurship and honored by the National Women's History Museum with a "Living Legacy" Award for her work to empower girls around the world. Debbie received her degree in Engineering at Stanford University in 2006.

Technical Tours

Gas Technology Institute (GTI) Lab
Monday, January 22, 2:30 – 5:30 p.m.
$30

GTIs work includes ongoing development of technologies to improve the efficiency of residential and commercial HVAC and water heating products.

Method Home Soap Manufacturing Plant
Monday, January 22, 2:30 – 5:30 p.m.
$30

The new state-of-the-art facility showcases the company's dedication to sustainability with the first LEED® Platinum manufacturing facility in its industry.

340 On the Park
Tuesday, January 23, 1:00 – 4:00 p.m.
$30

340 On The Park is a 62-story, luxury multi-family high rise constructed in 2007 and managed by Lieberman Management Services, which utilizes a district chilled water service for the building's cooling needs.

The Plant
Tuesday January 23, 1:00 p.m. – 4:00 p.m.
$30

This facility will eventually divert over 10,000 tons of food waste from landfills each year, while providing enough electricity to power over 250 homes.

General Tours

Chicago Neighborhoods
Sunday, January 21, 9:00 – 11:00 a.m.
$65

Chicago Highlights 101
Sunday, January 21, 1:00 – 3:00 p.m.
$65

Chicago's Southside Hidden Highlights Tour
Monday, January 22, 2:30 – 4:20 p.m.
$65

Moody Tongue Brewery Tour
Tuesday, January 23, 1:00 – 4:00 p.m.
$95

Gold Coast Tour
Tuesday, January 23, 1:00 – 2:30 p.m.
$65
ASHRAE Learning Institute Courses

Full-Day Professional Development Seminars
By January 2, 2018: $510 ($415 ASHRAE Member)
After January 2, 2018: $540 ($445 ASHRAE Member)

Saturday, January 20, 2018, 8am-3pm
The Commissioning Process in New & Existing Buildings
Complying with Requirements of ASHRAE Standard 62.1-2016

Tuesday, January 23, 2018, 9am-4pm
Humidity Control I and II: Principles & Applications Updated!
Optimizing Indoor Environment: Increasing Building Value NEW!

Half-Day Short Courses
By January 2, 2018: $184 ($139 ASHRAE Member)
After January 2, 2018: $214 ($169 ASHRAE Member)

Sunday, January 21, 2018, 3:30-6:30pm
Air-to-Air Energy Recovery Applications: Best Practices
Laboratory Design: The Basics and Beyond
New ASHRAE-Classified Refrigerants to Meet Society’s Changing Needs
Understanding and Designing Chilled Beam Systems NEW!

Monday, January 22, 2018, 8:30-11:30am
Designing High-Performance Healthcare HVAC Systems
Energy Management Best Practices
High-Performance Building Design: Applications & Future Trends

Monday, January 22, 2018, 2:45-5:45pm
ASHRAE Guideline 0 – The Commissioning Process
Design of Affordable and Efficient Ground Source Heat Pump Systems

ASHRAE Certification Exams
Saturday, Jan. 20 and Wednesday, Jan. 24
Apply by Dec. 20 to sit for an ASHRAE Certification exam in one of these key fields:
Conference Registrants can include the Certification application fee when registering, and apply by December 20 to sit for the exam. Applications are available at www.ashrae.org/certification.

SOCIAL EVENTS

Welcome Party
Saturday, January 20
6:30 – 8:30 p.m.
Cost: $55
Catch up with old friends and make new ones as the Conference kicks off with the traditional Welcome Party. The event takes place at the Chicago Cultural Center, a few walkable blocks from the Palmer House Hilton.

President’s Luncheon
Monday, January 22
12 – 2 p.m.
Cost: $45
Palmer House
2017-18 ASHRAE President Bjarne Olesen provides an update on his presidential theme, “Extend.” Major contributors to the ASHRAE RP Campaign also are recognized.

Members’ Night Out
Tuesday, January 23
Reception 6:15 – 7:15 p.m.
Dinner 7:15 – 10 p.m.
Cost: $55
Palmer House
Feeling lucky? Take a chance and join us for an evening of fun with another Chicago “back room” action casino party. Here’s the deal, come and test your skills or enjoy being serenaded by a local jazz band.

Tuesday, January 23, 2018, 9am-12pm
Variable Refrigerant Flow Systems: Design & Application
Fundamental and Application of Standard 55
Complying with Standard 90.1-2016: HVAC/Mechanical NEW!

Tuesday, June 23, 2018, 1-4pm
Complying with Standard 90.1-2016: Appendix G
Designing Toward Net-Zero Energy Commercial Buildings
IT Equipment Design Evolution & Data Center Operation Optimization

Young Engineers in ASHRAE (YEA) Hospitality Suite
Sunday, January 21
4 – 6 p.m.
Palmer House
Young professional members age 35 and younger are invited to visit the YEA Hospitality Suite. The suite offers social and networking opportunities, and light refreshments are served.
REGISTRATION

Early Bird fees from September 1 through November 2
- $535 member/$745 non-member
- $510 first-time member attendee/$720 first-time non-member attendee
- $195 Life Member

Onsite registration fees from January 3 through 24
- $555 member/$900 non-member
- $670 first-time member attendee/$870 first-time non-member attendee
- $270 member one-day fee/$320 non-member one-day fee
- $155 Life Member

Advance fees from November 3 through January 2
- $500 member/$770 non-member
- $495 first-time member attendee/$745 first-time non-member attendee
- $145 Life Member

Registration fees for speakers, student branch advisors and students
- $135 speaker
- $150 student branch advisor
- $25 student member/$55, full-time student non-member
- $55 spouse/guest
Devin Abellon, P.E. is the Business Development Manager for Engineering Services at Uponor North America. He has 23 years of experience in the HVAC and plumbing industries with a focus on high-performance and sustainable building design and construction. He holds a Bachelor of Science degree in Mechanical Engineering from the University of California at Santa Barbara and is a registered professional engineer in California and Arizona. He is an active member of both ASPE and ASHRAE, and serves as an ASHRAE Membership Committee Chair, Programs Subcommittee Chair for ASHRAE TC 6.5 Radiant Heating and Cooling, Region X Nominating Member, and as an ASHRAE Distinguished Lecturer.

Summary:

For those who design in BIM/CAD, manufacturer-provided content is widely viewed as being superior to generic, out-of-the box content when planning and designing a project. The data embedded within manufacturer-provided content is unique to the characteristics of the product, providing engineers with the ability to visualize a system's installation or a model's performance within a building before construction begins.

When designing with PEX, it is especially important to have access to manufacturer-provided content to ensure the system takes advantage of the unique features of the product, such as its flexibility, and also takes into consideration the challenges, such as expansion and contraction of the pipe. In this session, attendees will learn about the importance of PEX manufacturer-provided content as well as the trends in BIM/CAD for commercial PEX piping systems.

**PDU/CEU certificate:** Uponor North America will issue a signed company certificate of your personal attendance after viewing the presentation. The presentation is not registered with any state, so check your state's continuing education requirements if a credit can be applied with this webinar.
Start planning your itinerary for the 2018 ASHRAE Winter Conference using the Personal Scheduler. Browse by track, presenter, program and more to create your custom itinerary. Sync your schedule with your device using the ASHRAE Events App.

Conference Tracks Include:

- Systems and Equipment
- Fundamentals and Applications
- Standards, Guidelines and Codes
- Resiliency: Withstanding Earth, Wind & Fire
- Tall Buildings
- Modeling Throughout the Building Life Cycle
- Heat Exchange Equipment
- Refrigerant mini-track at AHR Expo
- Residential mini-track at AHR Expo