

ASHRAE Rochester



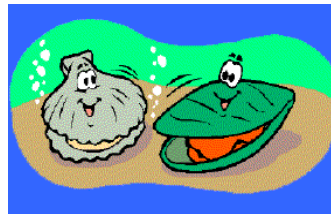
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AUGUST, 2016

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ASHRAE Clambake Meeting info



- Topic:** State of the Construction Industry in Rochester with the Economic Development Grants & Photonics (PDH Pending)
- Presenter:** Aaron Hilger, ROBEX President
- When:** Monday September 19th, 2015 at 5pm
- Where:** Burgundy Basin Inn, Pittsford, NY

Cost: \$30.00 plus \$7.50 per dozen clams (No limit, Pre-order as many dozen as you want).

Tickets must be purchased by **September 12th**. No tickets will be sold at the door. **See clambake announcement on page 5** of this issue for specifics on how to make your reservation.

Reservations are Required

Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission of the chapter.



Chapter Officers

President

Jeff Close, PE
(585) 289-6816
jeff.close@pres-services.com

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

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Paul Kenna, PE
(585) 261-0558
pkenna@nrg-concepts.com

Secretary

Tom Streber
(585) 272-9450
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Committee Chairs

CTTC

Jeff Wiedrick (585) 325-8354
jwiedrick@bergmannpc.com

Grassroots Government Advocacy

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Refrigeration Co-Chairs

Michael Nohle (585) 545-5522
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Sam Scorsone (585) 232-5135
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Historian

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Membership

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YEA

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Research Promotion

Matt Devlin (585) 232-5135
mdevlin@bergmannpc.com

Webmaster

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

Nominating / Past President

Christina Walter (585) 486-2148
cmwalter@trane.com

Buyer's Guide

Marianne Schumacher (585) 217-3942
marianne.schumacher@jci.com

SAVE THE DATE

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

ASHRAE 2016-2017 Meeting Schedule			
Date	Event	Theme	Location
Monday, 9/19/2016	Construction Industry in Rochester <i>(presented by Aaron Hilger, ROBEX President)</i>	Membership Night	Burgundy Basin @ 5:00 PM
Monday, 10/17/2016		<i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 11/14/2016		<i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 12/12/2016		Resource Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 1/9/2016		<i>(PDH Pending)</i>	City Grill @ 12:00 PM
Friday, 2/3/2017	Annual ASHRAE Valentines Dinner Dance	---	TBD
Monday, 2/13/2017		Membership Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 3/13/2017		Resource Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 4/10/2017		Refrigeration Night <i>(PDH Pending)</i>	TBD
Monday, 5/8/2017	Annual ASHRAE Golf Outing and Picnic <i>(Ravenwood Golf Course)</i>	---	9:30 AM Golf 4:30 - 8:00 Picnic

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.



Shaping Tomorrow's
Built Environment Today

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 August Message

August Newsletter 2016
President's Message

A new calendar year of ASHRAE has begun and speaking for the entire chapter we would like to thank Christina Walter for the amazing job she did as last year's President. The chapter had a great year, which saw our meeting attendance grow and membership increase. I would also like to introduce and extend my advanced appreciation for this year's chapter officers, committee chairs and board of governors that volunteered their time to serve our chapter.

Bill Clark, President Elect & Program
Paul Kenna, Treasurer
Tom Streber, Secretary
Chris Walter, Immediate Past President & Nominating
Branden Farnsworth-Weinblatt, Board of Governors
Tim Duprey, Board of Governors & Attendance
Sam Scorsone, Board of Governors & Refrigeration
Steve Dear, Board of Governors & Website
George Herman, Board of Governors
Mike Benedict, Board of Governors & Membership
Jacob Hall, Historian
Scott Edwards, Newsletter Editor
Matt Devlin, Research Promotion
Rob Hudson, Student Activities
Al Rodgers, Awards & Recognition
Jeff Wiedrick, Chapter Technology Transfer Chair
Bill Murray, Education Chair
Mark Kukla, Publicity Chair
Matt Kremers, YEA Chair
Jim Browe, Picnic & CRC 2016 Chair
Marianne Schumacher, Buyers Guide
Jody McGarry, Valentine's Dance
Mike Nohle, Refrigeration
Tom Burke, Government Advocacy Chair



Jeff Close, 2016-2017 President

The Rochester ASHRAE Chapter is very excited to be hosting the Region I Centralized Regional Conference (CRC) in August. The CRC brings chapter representatives from (15) regions in the Northeast together to review chapter operations and plan for a successful year.

I look forward to seeing you at our Clambake on Monday, September 17th.

Jeffrey Close, P.E.
2016-2017 President
Rochester Chapter

ASHRAE CLAMBAKE



When: September 19th, 2016
 Where: Burgundy Basin Inn
 1361 Marsh Road Pittsford NY 14534
 Time: 5:00 P.M.
 Cost: \$30.00 plus \$7.50 per dozen clams
 (No Limit, Pre-Order as many dozen as you want)

Tickets must be purchased by September 12th. No tickets sold at the door.

ASHRAE CLAMBAKE Membership Promotion Night

Topic: Rochester Area Construction Outlook

Presenters: Aaron Hilger, Builders Exchange of Rochester, President.

Reservations: www.rochester.ashraechapters.org



Walnut Grove Pavilion - Burgundy Basin Inn

Directions:

Take 490E to Exit 27 Bushnell's Basin. Turn right onto Pittsford Victor Road / Route 96. Take 2nd right onto Marsh Road. Burgundy Basin is over canal bridge on left.

Buffet Menu:

Baked Clams Casino, Scallops wrapped in bacon, Italian Sausage, Sliced Beef BBQ on Bun, Chicken BBQ, Mac & Cheese, Corn, Cole Slaw, Macaroni Salad, Southwest Bean Salad, Assorted

If you have questions contact Tim Duprey at (585) 471-8566 or e-mail to tim.duprey@pres-services.com

Non-ASHRAE Members are Welcome!

Cut Here

Make check out to **Rochester Chapter of ASHRAE** and mail with completed form to:
 ASHRAE Clambake, Attn: Tim Duprey, 98 Red Hickory Drive, Rochester, NY 14626

Name: _____ ASHRAE Member Yes No
 (Circle one)

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Number of Buffet Tickets: _____ x \$30.00 = Total \$ _____

Number of Dozen Clams: _____ x \$7.50 = Total \$ _____

Total Check Amount: \$ _____

**** TICKETS CAN BE PICKED UP AT THE DOOR ****

Reservations must be mailed in by September 12th



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, Jeff Close at (585) 289-6816 or by email jeff.close@pres-services.com.

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

Presidential Award Of Excellence



Download



Achievements



Report

Chapter:

Fiscal Year:

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 475
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 100
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 0
▶ Historical	Par: 300	Min Points: 100	Total Points: 0
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 400
▶ RP	Par: 1050	Min Points: 800	Total Points: 0
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 850

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.

Rochester Chapter

Committee Chairs Updates

Student Activities

ASHRAE Student Activities – An Introduction to Engineering

How many middle school students know what engineering is? Or High school students? How about their parents or their teachers?

The answer is quite alarming.

In high school, some offer a Principals of Engineering class, which does a great job at teaching basic problem solving; however, these classes introduce the different disciplines of engineering from slide show presentations. We all know high school kids have an uncanny ability to pay attention to slide shows. From here, students must make critical decisions about their future. “Should I go to college? There are so many, which one? Should I go for engineering? I guess that was ok in school, but which type?”

I know this because I took that class in high school not too long ago. That class had a role in helping me realize that I enjoyed problem solving and engineering would be my career. One problem: I still had no idea what that meant. Fortunately for me, I had many opportunities to figure out what a career in engineering was like to solidify my decision. Many students do not have those opportunities to explore engineering. I have seen friends in college begin as an engineering major, only to switch and extend their college stay for years once they realize what an engineer truly is. College isn't getting cheaper.

As our chapter's new Student Activities Chair, I wish to begin reaching out to middle and high school students to introduce them to the engineering career. By giving them an opportunity to interact with real engineers, 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 have the slightest interest in helping the engineering community grow from its earliest stages. I have many ideas, but they all depend on an active community to achieve. If you are very interested and wish to be even more involved, also let me know that as well.

Rob Hudson, PE
IBC Engineering and ASHRAE Student Activities Chair
rhudson@ibceng.com

Rochester Chapter

Committee Chairs Updates

Research Promotion



Research Promotion Report

Thank you for the support in 2015/2016!!

The 2015-2016 RP campaign year came to a close on June 30th. We thank everyone who contributed to this years campaign to support ASHRAE research, these donations are truly an investment in our Region and the future of our industry. We will be sending out information soon about the date of our upcoming fall donor recognition meeting.

Our first annual Trap/ Skeet outing to support ASHRAE research was held in early June. Despite the threat of rain, it turned out to be a beautiful day and the event was a success. We had a mix of talent from novice shooters to experienced sportsmen, and a mix of chapter members along with friends and family. Top shooter award went to Tom Walter, the husband of our past president Christina Walter. We hope to see even more of you at the 2nd annual outing which we are planning in the spring of 2017.

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

Matt Devlin, CEM, CPMP

RP Chair

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE
Board of Governors Meeting Minutes

July 11th 2016, 12:00 PM

Location: City Grill, 384 East Avenue, Rochester, NY

President / CRC Delegate	Jeff Close	X
President Elect / Program/ CRC Alternate	Bill Clark	X
Treasurer	Paul Kenna	X
Secretary	Tom Streber	X
Immediate Past President & Nominating	Chris Walter	X
Board of Gov. (3) & Attendance Chair	Tim Duprey	X
Board of Gov. (3)	Branden Farnsworth-Weinblatt	X
Board of Gov. (2) & Refrigeration Co-Chair	Sam Scorsone	X
Board of Gov. (2) & Website Chair	Steve Dear	X
Board of Gov. (1) & Membership Promotion (MP)	Mike Benedict	X
Board of Gov. (1)	George Herman	X
Historian Chair	Jake Hall	X
Newsletter Editor	Scott Edwards	X
Resource Promotion Chair (RP)	Matt Devlin	X
Awards & Recognition Chair	Al Rodgers	X
Chapter Technology Transfer Chair (CTTC)	Jeff Wiedrick	X
Education	Bill Murray	X
Publicity	Mark Kukla	X
YEA Chair (Young Engineers in ASHRAE)	Matt Kremers	
Student Activities Chair (SA)	Rob Hudson	X
Picnic/Golf Chair & CRC 2016 Committee Chair	Jim Browe	X
Buyers Guide	Marianne Schumacher	X
Valentine's Dinner Dance	Jody McGarry	
Grassroots Government Advocacy Chair	Tom Burke	
Refrigeration Co-Chair	Mike Nohle	X

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE
 Board of Governors Meeting Minutes
 July 11th 2016, 12:00 PM
 Location: City Grill, 384 East Avenue, Rochester, NY

Roll Call: The above noted individuals were present.

Call to Order: 12:07 pm

Meeting Minutes:

1. Call to Order Jeff Close
 - Chart of Officers and Committee Chairs (CIQ)
 - Please provide updated info if necessary

2. Roll Call and Introductions. Tom Streber

3. Approval of Previous Meeting's Minutes All
 - Approved by Al Rodgers
 - Second by Mark Kukla

4. Treasurer's Report 2016/2017 Paul Kenna
 - \$1,000 above 2015 for meeting attendance.
 - 30% increase from Buyers Guide.
 - Jeff Close to call for cost of annual audit.
 - Year End financial summary.
 - 2016-2017 Proposed budget.

5. Program Report Bill Clark
 - Last year avg. 76 attendees (increase from last year, 91 highest count, All PDH approved).
 - Clam Bake cost to increase to \$30 (from \$25) to prevent net loss.
 - 2016-2017 Program update.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE
 Board of Governors Meeting Minutes
 July 11th 2016, 12:00 PM

Location: City Grill, 384 East Avenue, Rochester, NY

- | | |
|--|---------------|
| 6. Chapter Operations | Jeff Close |
| <ul style="list-style-type: none"> • Manual of Chapter Operations (partial) <ul style="list-style-type: none"> i. Section 1 Officers ii. Section 2 Chapter Committees iii. Section 8 Management by Objectives (MBO). • Rochester Chapter Manual of Procedures. • Rochester Chapter Bylaws and Constitution. • Each BOG member is asked to research how they can earn PAOE points. <ul style="list-style-type: none"> i. i.e. non-members attending monthly meetings earns PAOE points. | |
| 7. Membership Promotion (MP) | Mike Benedict |
| <ul style="list-style-type: none"> • Training session in Atlanta GA for Committee Chair. | |
| 8. Education | Bill Murray |
| <ul style="list-style-type: none"> • No report | |
| 9. Young Engineers in ASHRAE (YEA) | Matt Kremers |
| <ul style="list-style-type: none"> • Promote CRC YEA Event - Thursday, 8/18 @ Genesee Brew House @ 8:30pm (FREE) | |
| 10. Awards & Recognition | Al Rodgers |
| <ul style="list-style-type: none"> • Realto E. Cherne award (to be presented at September clam bake) • CRC Awards? | |
| 11. Resource Promotion (RP) | Matt Devlin |
| <ul style="list-style-type: none"> • Training seminar in Chicago available. • 1st Annual skeet shoot <ul style="list-style-type: none"> i. 17 attendees. ii. Future event to be late spring/early summer • Centralized Training ... | |

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE
Board of Governors Meeting Minutes

July 11th 2016, 12:00 PM

Location: City Grill, 384 East Avenue, Rochester, NY

- | | |
|---|-------------------------|
| 12. Refrigeration | Mike Nohle/Sam Scorsone |
| <ul style="list-style-type: none"> • Possible topic for refrigeration meeting - Round table for refrig. regulations. • Joint meeting with RSES in April to be considered. • YEA refrigeration training session to be considered. • Adding a refrigeration section in newsletter to be considered. | |
| 13. Grassroots Government Advocacy | Tom Burke |
| <ul style="list-style-type: none"> • No report | |
| 14. Newsletter | Scott Edwards |
| <ul style="list-style-type: none"> • Submissions due July 8th for August. Check manual for remaining dates. | |
| 15. Buyers Guide | Marianne Schumacher |
| <ul style="list-style-type: none"> • No report | |
| 16. Historian | Jake Hall |
| <ul style="list-style-type: none"> • Lee Loomis is working on History display for CRC in August | |
| 17. Publicity | Mark Kukla |
| <ul style="list-style-type: none"> • No report | |
| 18. Website | Steve Dear |
| <ul style="list-style-type: none"> • No report | |
| 19. Nominating | Chris Walter |
| <ul style="list-style-type: none"> • No report | |

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE
 Board of Governors Meeting Minutes
 July 11th 2016, 12:00 PM
 Location: City Grill, 384 East Avenue, Rochester, NY

20. CRC 2016 General Chair Jim Browe
- Planning is almost complete.
 - Presentation to CRC committee was shown to BOG.
 - Early bird registration closes on 7/15.
 - Rochester Chapter will pay for Rochester committee members to attend.
 - Event Scheduled on August 18-20, 2016.
21. Picnic/Golf Jim Browe
- \$12,000 Proceeds.
 - Greater focus on contractor attendance in 2017.
22. Old Business
- 2015-16 Audit and Audit Committee
23. New Business
- Chris Walter to present a summary report/presentation of 2015-16 at CRC.
 - MBO's are due prior to next BOG meeting.
 - Individual Chairs to identify target PAOE points prior to next BOG meeting.
 - Lynn Bellenger HOF.
 - i. Approved for HOF approval process in St. Louis.
 - ii. Chris to be informed of vote soon.
 - Please contact Al Rodgers with nominees for Realto Cherne
 - BOG members should keep personal bios updated on ASHRAE's website.
24. Presidential Awards of Excellence (PAOE)
- Review status spreadsheet
25. Next BOG meeting: 9/9/16 at Day Automaton's office. 7:30am

Adjourned 1:29 pm.



ASHRAE Student Membership Application

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!**



ASHRAE
STUDENT MEMBERSHIP APPLICATION

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
ASHRAE • 1791 TULLIE CIRCLE NE • ATLANTA, GA 30329-2305 • 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: _____ Apt. # _____ City: _____
State/Province: _____ Postal Code: _____ Country: _____
Email: _____ Alternate email: _____ Phone: _____

Permanent Mailing Address: (during the Summer Months and after graduation)

Check if Current Address is the same as Permanent Address

Street Address: _____ Apt. # _____ City: _____
State/Province: _____ Postal Code: _____ Country: _____
Email: _____ Alternate email: _____ Phone: _____

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: _____ ASHRAE Member #: _____
Advisor/Instructor: _____ Phone: _____
Email: _____

To receive your subscription to the ASHRAE Journal, please answer the following questions by entering the appropriate codes in the spaces provided.

Which best describes your firm? _____

- 11. Consulting Engineering
- 12. Architect/Architectural & Eng Services
- 15. Design/Build
- 21. Contractor
- 26. Property Mgmt & Dev
- 31. Industrial Facility
- 41. Commercial Facility
- 42. Government, Healthcare, Education
- 43. Utility
- 51. Manufacturer/HVAC&R Equipment
- 61. Manufacturer's Representative
- 62. Sales Engineering
- 71. Wholesaler or Distributor
- 83. Library
- 84. Technical, Professional or Trade Association
- 86. Student ***
- 91. Other (Please Specify) _____

Which best describes your title? _____

- B. President
- C. Partner
- D. Associate
- E. Owner
- F. Vice President
- G. Vice President Eng, Chief Engineer
- K. Design Engineer
- L. Project/Application Engineer
- O. Facility Engineer/Manager
- P. Research/Development Engineer
- R. Sales Engineer, Sales
- S. Purchasing Agent
- T. Draftsperson
- U. Estimator
- W. Technician
- X. Instructor, Professor
- Y. Student ***
- Z. Librarian
- ZZ. Other (Please Specify)

ASHRAE Society Dues include \$6.00 for ASHRAE Journal. This amount is not deductible from Membership dues.

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 CD! (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.



**2016 REGION I CHAPTER REGIONAL CONFERENCE
AUGUST 18-20 ROCHESTER, NY**

Sponsorship Levels:

- Platinum \$5,000***
- Gold \$2,500***
- Silver \$1,000***
- Bronze \$500***

Family and Companion Tours



Strong National Museum of Play



George Eastman Museum



Artisan Works

YEA Event



Genesee Brew House

Presidential Dinner



The Penthouse

What is the CRC?

The Chapters Regional Conference (CRC) is intended to provide a forum for the dissemination of information pertaining to chapter, regional and society activities. Region I consists of Connecticut, Maine, New Hampshire, New Jersey, New York, Rhode Island & Vermont. Chapters from these areas come together to report their activities from the past year and establish goals for the coming year. Technical sessions are conducted as well as award presentations and social activities. This is an annual conference and is located in the city of one of its region's chapters and we are proud Rochester is this year's chosen city for Region I.

Typically 100-150 Region I ASHRAE Members along with spouses and families attend the CRC. Please go to www.rochester.ashraechapters.org for a detailed listing of the benefits of being a sponsor.

Conference Registration Fees

Registration Type	By July 15, 2016	After July 15, 2016
Full Conference	\$370	\$450
Companion Full Conference	\$220	\$270
Kids Full Conference	FREE	FREE
Family Tour (Strong Museum of Play & Lunch)	\$15	\$15
Companion Tour (George Eastman Museum, Artisan Works & Lunch)	\$35	\$35
YEA Event (Genesee Brew House)	FREE	FREE
Friday/Saturday Conference	\$220	\$270
Friday/Saturday Companion	\$130	\$160
Saturday Only	\$120	\$150
Thursday Dinner Only (One East Ave Penthouse)	\$65	\$65
Friday Dinner Only (Hyatt Ballroom)	\$85	\$85

Conference Registration and Hotel Reservations can be made at: www.ashrae2016crc.com

Hyatt Regency Room Rate: \$115 + taxes & fees

Note: Hotel reservation is separate from conference registration.





**2016 REGION I CHAPTER REGIONAL CONFERENCE
AUGUST 18-20 ROCHESTER, NY**

EVENT SCHEDULE					
Day	Start Time	End Time	Event	Location	Attendees
THURSDAY, August 18, 2016	12:00pm	7:00pm	Registration	Coatroom Alcove	All Attendees
	12:00pm	2:00pm	Region 1 Audit	Wimorite	Invited Region 1 Officers
	1:00pm	3:00pm	Hospitality Suite	Presidential Suite	Registered Attendees
	1:00pm	3:15pm	Technical Session	Regency Ballroom	Registered Attendees
	3:30pm	5:30pm	Business Meeting 1	Grand ABC	Delegates, Alternates & Regional Officers and Chairs
	6:00pm	7:00pm	Welcome Reception	One East Ave. Penthouse	Registered Attendees
	7:00pm	8:30pm	Welcome Dinner		
	8:30pm	12:00am	YEA Event	Genesee Brewery	
	10:00pm	1:00am	Hospitality Suite	Presidential Suite	Registered Attendees
	FRIDAY, August 19, 2016	7:00am	7:00pm	Registration	Coatroom Alcove
9:00am		11:00am	Hospitality Suite	Presidential Suite	Registered Attendees
7:00am		9:00am	Breakfast	Grand Foyer	Registered Attendees
8:00am		9:00am	Local ASHRAE Recognition Breakfast	Main Street Gallery	Invited Society and Local Guests
8:00am		10:00am	Caucus	Eastman Boardroom	Delegates & Alternates ONLY
10:00am		11:45am	Chapter Operations Workshop	Grand ABC	Chapter Officers
10:00am		3:00pm	Companion Tour	The Eastman Museum, Artisan Works & Lunch	Registered Attendees w/ RSVP
10:00am		3:00pm	Family Tour	The Strong Museum of Play & Lunch	Registered Attendees w/ RSVP
12:00pm		1:00pm	Lunch	TBD	Registered Attendees
2:00pm		3:30pm	Executive Session	Lafayette Room	Delegates & Alternates ONLY
SATURDAY, August 20, 2016	3:30pm	5:45pm	Business Meeting 2	Grand ABC	Delegates, Alternates & Regional Officers and Chairs
	6:00pm	10:00pm	Presidential Dinner	Grand DEFG	Registered Attendees
	10:00pm	12:00am	Hospitality Suite	Presidential Suite	Registered Attendees
	7:00am	10:00am	Registration	Coatroom Alcove	All Attendees
	9:00am	11:00am	Hospitality Suite	Presidential Suite	Registered Attendees
	7:00am	9:00am	Breakfast	Grand Foyer	Registered Attendees
	8:00am	9:00am	Research Promotion Workshop	Regency C	Research Chairs
	8:00am	9:45am	Business Meeting 3	Grand ABC	Delegates, Alternates & Regional Officers and Chairs
	8:00am	9:45am	Government Activities Workshop	Grand E	GA Chairs
	8:00am	11:00am	CTTC Workshop	Regency AB	CTTC Chairs
8:30am	9:30am	RECC Workshop	Carson	RECC Chairs	
8:30am	10:30am	Student Activities Workshop	Grand Foyer	Student Activities Chairs	
8:30am	11:30am	Membership Promotion Workshop	Wimorite	Membership Chairs	
10:00am	11:30am	Historian Workshop	Regency C	Historians	
10:00am	11:30am	YEA Workshop	Carson	YEA Members	
10:00am	12:00pm	Hospitality Suite	Presidential Suite	Registered Attendees	
12:00pm	2:00pm	Awards Luncheon	Grand ABCD	Registered Attendees	
2:30pm	3:30pm	CRC Debrief	Carson	CRC Host Committee & Guests	

Family and Companion Tours



Strong National Museum of Play



George Eastman Museum



Artisan Works

YEA Event



Genesee Brew House

Conference schedule is preliminary, subject to change prior to CRC.



Presidential Dinner to be held at: **THE PENTHOUSE**

A special Thank-you goes to our sponsors who are making this CRC a memorable event.

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Rochester Chapter

Article Details

- Not only limited to ASHRAE associated members
- Cost is \$125.00
- Checks accepted made out to ASHRAE Rochester Chapter or pay on website via PayPal
- May be color or B&W
- Size should be 8 ½ x 11 PDF format
- Updated on an annual basis

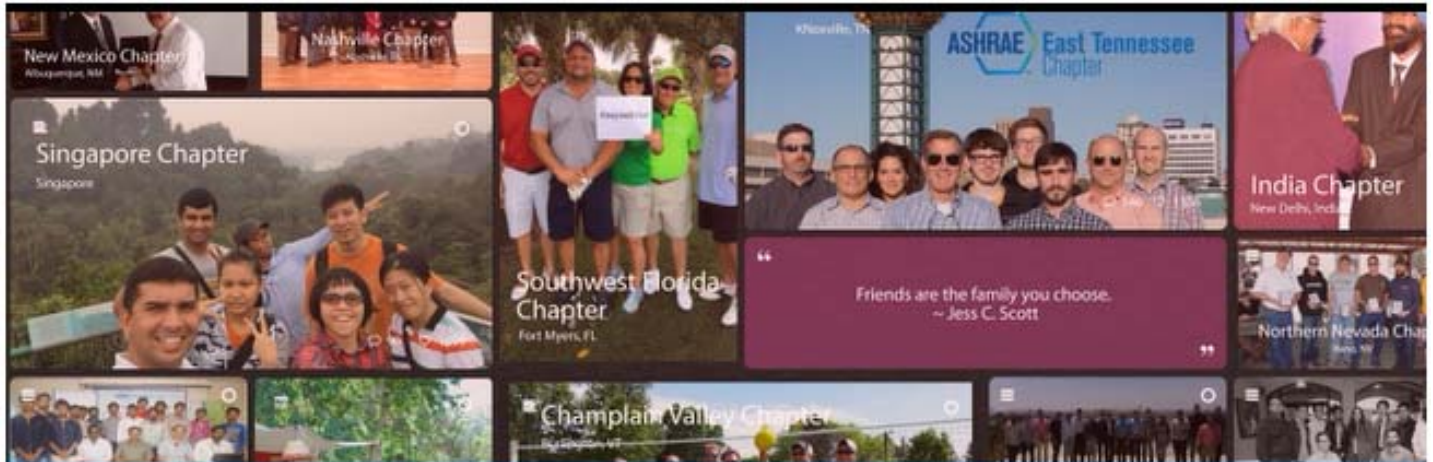
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Have Questions??

Contact: Marianne Schumacher
585-217-3942



Shaping Tomorrow's
Built Environment Today



Keynotes Newsletter

Daniel Gurley, Manager of Membership

Contact: DGurley@ashrae.org or 678-539-1127

Member Spotlight

Israa Ajam



Israa Ajam is a rising star in the building industry. Her journey with ASHRAE began in 2007 as a student in Montreal Quebec. At an early age, Israa's fascination for knowing how things worked motivated a growing passion for high performance buildings and the effects of global warming. Israa commented on one of her greatest accomplishments so far stating, "I am proud to have received a letter of recognition from the Canadian Ministry of Natural Resources for a 51% energy reduction of the Concordia PERFORM center." Today, Israa tackles the challenges of environmental protection, while also creating opportunities and a professional network for women in engineering as co-chair of the National Capitol Chapter of Women in ASHRAE.

Get Certified at Region X CRC in Los Angeles Aug. 11

Apply by June 30 and members save \$100 on their application fee.



Are you ready to take this next step in your career? [Apply by July 21](#) to sit for an ASHRAE certification exam in Los Angeles on Aug. 11, 2016 in conjunction with the [Region X CRC](#). Recognized by over 30 national, state and local [government bodies](#), including the General Services Administration for FBPTA purposes, California Commissioning Collaborative, Los Angeles County, Sacramento, and San Francisco. With over 2,300 certifications earned, ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

2016 ASHRAE Handbook Published

The 2016 *ASHRAE Handbook— HVAC Systems and Equipment*, discusses various systems and the equipment (components or assemblies) they comprise, and describes features and differences. This information helps system designers and operators in selecting and using equipment. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units.



[Learn More](https://www.ashrae.org/resources--publications/handbook/2016-ashrae-handbook-hvac-systems-and-equipment): <https://www.ashrae.org/resources--publications/handbook/2016-ashrae-handbook-hvac-systems-and-equipment>

Staff Volunteer Event



Members of ASHRAE's staff recently worked with Trees Atlanta to beautify Adair Park in Atlanta, Georgia. The effort ties in with ASHRAE's mission to serve humanity and promote a sustainable world and exemplify its core values of commitment and volunteerism. Trees Atlanta is a nationally recognized non-profit citizens' group that protects and improves Atlanta's urban forest by planting, conserving, and educating.

Watch the Video: <https://www.youtube.com/watch?v=xGG-Nr1kjlI>

Become a Dual Member with IAQA

25% off Individual Membership!



Searching for a way to stand out among HVAC professionals? [Join IAQA](#) today for \$146 and gain access to a wealth of knowledge on indoor air quality. Take advantage of this offer and receive:

- Discounted access to IAQA's robust education program with IAQA University, monthly webinars, and on-site training courses.
- Weekly IAQA Digest and Legislative Alerts to stay connected to the industry's current events.
- Networking opportunities through Chapter Workshops, the Annual Meeting, and LinkedIn Group
- Contact with potential customers through the Find a Pro Database.

Two New ASHRAE Chapters

Ecuador, South America and Macao, China

Members Council approved the charter of two new chapters: the Ecuador Chapter located in Guayaquil, Ecuador, South America and the Macao Chapter, located in Macao, China. This brings the total number of ASHRAE chapters globally to 181. Members Council also approved the charter of 13 new international student branches.

Learn More: <https://www.ashrae.org/society-groups/chapters/list-of-ashrae-chapters-and-homepages>

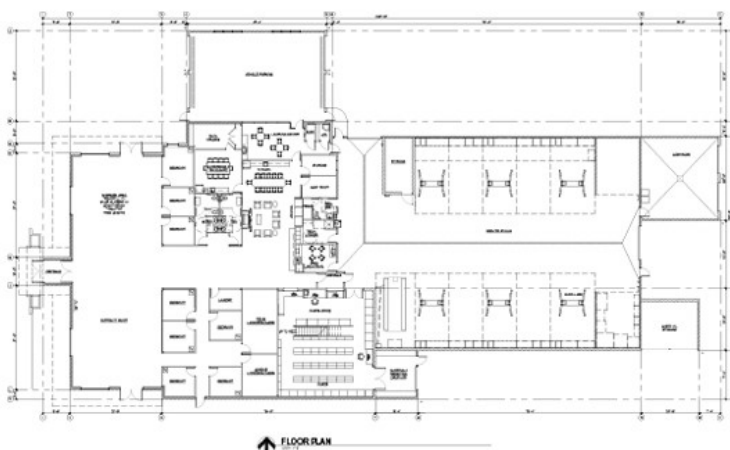
Member Spotlight



ASHRAE recognizes member's spectacular achievements in the engineering industry through a monthly **Member Spotlight**. Refer an ASHRAE member from your chapter or region for a chance to be the next Member Spotlight featured on ASHRAE's website. Please **email** your referrals to Marketing Assistant, Lauren Montgomery.

2017 Student Design Competition

Registration Now Open



The **2017 Student Design Competition** focuses on a new single-story with mezzanine office and repair building in the Diego Ramirez Islands. Each team must register online in order to participate. The first deadline for the 2017 competition is May 4th, 2017. ASHRAE will recognize the outstanding student design projects at the 2018 ASHRAE Winter Meeting to be held in Chicago, IL, January 20-January 24, 2018. For more information **contact** the Assistant Manager of Student Activities, Katie Thomson.

ASHRAE Approved New Public Policy Issue Briefs

At ASHRAE's Annual Conference in St. Louis, MO, the Society approved new updates to eight Public Policy Issue Briefs. The Issue Briefs are an effort to translate the Society's positions and activities into easily understood and communicated concepts, which are intended for distribution to government officials and others with limited technical expertise, but who would benefit from information regarding ASHRAE and its activities.

Learn More: <https://www.ashrae.org/government-affairs/public-policy-issue-briefs-letters--testimony>

ASHRAE Qualifications Recognized as FBPTA-aligned



Did you know U.S. federal buildings personnel can now include ASHRAE's Building Energy Assessment Professional (BEAP), Commissioning Process Management Professional (CPMP), and Operations & Performance Management Professional (OPMP) certifications and the ASHRAE Learning Institute's Fundamentals of Building Operation, Maintenance and Management course in their professional development plan?

These [ASHRAE qualifications](#), recently reviewed by the Facility Management Institute of the U.S. General Services Administration, have been included in the 2015 Core Competencies and Recommended Curriculum and added to the [Accelerate FM tool](#), designed to help personnel manage professional development. FBPTA requirements in competency area performances ranging from 13 to 98 can be met with one of these ASHRAE offerings.

Questions? Contact [Tim Kline](#), Certification Manager.

email: TKline@ashrae.org

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News

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For Release:
June 7, 2016
Contact: Jodi Scott
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ASHRAE Legionella Standard Serves as Basis for New CDC Toolkit

ATLANTA – Guidance from an ASHRAE standard regarding development and implementation of a water management program to reduce building risk for legionella is the basis of a new toolkit by the Centers for Disease Control (CDC).

The toolkit, “Developing a Water Management Program to Reduce Legionella Growth and Spread in Buildings: A Practical Guide to Implementing Industry Standards,” was released today. It provides a checklist to help identify if a water management program is needed, examples to help identify where legionella could grow and spread in a building and ways to reduce risk of contamination.

The toolkit is based on ANSI/ASHRAE Standard 188-2015, *Legionellosis: Risk Management for Building Water Systems*.

The toolkit was announced via the CDC’s Vital Signs, a monthly update from CDC that highlights topics of public health interest. This is the first time legionella has been highlighted in Vital Signs.

“ASHRAE is pleased to have worked with the CDC to help safeguard public health,” ASHRAE President David Underwood said. “While Legionnaire’s Disease has been known for many years, recent outbreaks have increased awareness of the disease, its causes and prevention strategies. We saw the need for this shortly after the standard was published, when an outbreak in New York City left at least 12 dead and 120 infected. At that time, portions of the standard were adopted by the city.”

“Many of the Legionnaire’s disease outbreaks in the United States over the past 15 years could have been prevented,” said CDC Director Tom Frieden, M.D. M.P.H. “Better water system management is the best way to reduce illness and save lives and today’s report promotes tools to make that happen.”

An earlier version of the toolkit was developed by the CDC, the state of Michigan and Genesee County to encourage at-risk building owners in Flint, Mich., to design and implement Standard 188 compliant water management plans. ASHRAE took part in a town hall meeting there to educate officials about the risks.

“The water crisis in Flint and the deaths there from Legionnaire’s Disease demonstrate that great care must be given to the entire building water system,” Underwood said.

Standard 188 can be previewed at no cost at <https://www.ashrae.org/Standard188>. The toolkit is available at www.cdc.gov/legionella.

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For Release:
June 9, 2016
Contact: Jodi Scott
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ASHRAE Celebrates High Performance Buildings Week

ATLANTA – High performance buildings play a central role in solving some of the nation's most pressing challenges. Members of the High Performance Building Coalition work with members of Congress during High Performance Building Week to expand awareness of the importance of high performance buildings. The theme of the week is Challenges and Solutions for Improving Resiliency, Workforce Development, Energy and Water Efficiency. The event takes place June 13-17, 2016. "People spend about 90 percent of their time indoors, and buildings are the single largest consumer of energy and water in the United States," Dain Hansen, chair of the High Performance Building Coalition, said. "As a result, the built environment has a huge impact on virtually all aspects of American life and national security, yet few have a thorough understanding of this complex industry. High Performance Building Week, celebrated in 2016 from June 13 to 17, provides a unique and important opportunity for members of the building community to organize and focus their efforts on educational talks with policymakers on the challenges of the building industry and the many benefits of high performance buildings. In the past, dialogue generated during High Performance Building Week events has resulted in the development and passage of innovative legislation that addresses resiliency, workforce development, energy and water efficiency needs." RSVP for events at <http://hpbccc.squarespace.com/events/>

Monday, June 13, noon-1 p.m. | 122 Cannon House Office Building Congressional Luncheon Briefing—Federal Engagement in Efficiency Standards

Energy Efficiency Standardization Coordination Collaborative (EESCC) published a strategic roadmap detailing the standards and conformity assessment programs needed to enable a more energy- and water-efficient built environment. Developed by over 160 public- and private-sector experts from more than 50 member organizations and four federal agencies, the roadmap established a national framework to which U.S. industry, government, standards developing organizations and others can look to enable greater energy and water efficiency capabilities for the nation's buildings.

Tuesday, June 14, Noon-1 p.m. | B369 Rayburn House Office Building Congressional Luncheon Briefing— OMB A-119 – The U.S. Government's Standards Policy – A Prime Example of Congress and the Executive Branch Working Together

Since 1982, the Federal government has followed an Office of Management and Budget (OMB) policy of encouraging Federal agencies to use voluntary consensus standards developed in the private sector, in place of government unique standards and specifications. In 1996, Congress enacted legislation to make sure the policy continued and the benefits would not be lost with changes in the Executive branch. These two complimentary actions, and the updates to the original OMB A-119 circular, have created a system of governmental use of standards developed in the private sector that saves taxpayers money, improves program results and regulatory compliance, and supports international trade and competitiveness. The panel will describe the current system and the benefits it delivers for taxpayers, the U.S. economy and federal programs.

See next page for continuation

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June 9, 2016
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**Tuesday, June 14, 5-7 p.m. | United States Capitol Visitor Center (HVC-200)
Congressional Reception**

Welcoming remarks by High Performance Building Congressional Caucus Co-Chairs Representatives David McKinley (R-WV-1) and Peter Welch (D-VT-At Large) (invited)
RSVP Required: <http://hpbccc.squarespace.com/events/>
(Please RSVP by 3 p.m. on Monday, June 13)

**Wednesday, June 15, 12:30-1:30 p.m. | 2103 Rayburn House Office Building
Congressional Luncheon Briefing— Meeting State and Local Demand for High Performance Green Residential and Commercial Buildings**

Around the country, states and cities are calling for high performance green residential and commercial buildings. But what exactly are high performance buildings, why is there a demand, what tools are available to meet this demand, what challenges exist, and how can Congress help? Join us for a fast-paced series of presentations from experts on cutting-edge trends in the building industry.

**Thursday, June 16, noon-1 p.m. | 2253 Rayburn House Office Building
Congressional Luncheon Briefing— Achieving a High-Performance Built Environment: Findings and Recommendations from the Consultative Council**

The U.S. building industry is a dynamic and evolving industry and the challenges it faces have significant implications for the nation's economy and citizens. Each year, the National Institute of Building Sciences, through its Consultative Council, brings together key stakeholders from across the industry to examine the challenges and opportunities before both the industry and the nation. This briefing will provide insight from the Council's 2015 report and focus on assuring a strong building industry workforce, advancing community resilience and assuring policies and regulations support the cost effective achievement of a high-performance built environment.

The High Performance Building Coalition is a coalition of approximately 200 organizations, including ASHRAE, which provides guidance and support to the High Performance Building Caucus of the US Congress. The Coalition supports legislation and policies that protect life and property, promote innovative building technologies, enhance US economic competitiveness, increase energy and water efficiency in the built-environment, advance sustainable and resilient communities, and support the development of private sector standards, codes and guidelines that address these concerns. More information can be found at www.hpbccc.org.

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For Release:
June 10, 2016
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Home Smart Home: Residential Smart Building Devices Examined at ASHRAE Conference

ATLANTA – While the data derived from smart devices benefits homeowners in many ways, with convenience topping the list, the devices shouldn't be so complicated that they outsmart the people using them. The use of devices and data insights is examined in a seminar at the ASHRAE 2016 Annual Conference. The Conference takes place June 25-29, Marriott St. Louis Grand Hotel and America's Center Convention Complex. To register or for complete information, visit www.ashrae.org/stlouis.

"The number of smart, connected technologies available and implemented in buildings has increased significantly in recent years, as have the number of types of devices and their capabilities to collect data on building performance, energy use and demand," Kristen Cetin, chair of the seminar, said. "This presents opportunities to utilize these devices and the data collected along with utility energy use information to more intelligently assess current building performance, and more intelligently operate building systems."

The seminar, "Residential Building Smart Devices and Data: Improving Energy Use Insights and Performance Evaluation," takes place June 29.

These new technologies benefit homeowners in many ways, including energy savings, better comfort, improved security/safety and improved knowledge of performance of homes.

Speaker Howard Chong says homeowners, however, would summarize the strongest benefit in one word: "Convenience, convenience, convenience. Homeowners don't have to look up their data through paper bills, computers are really good at keeping track of data. A big complaint from homeowners about energy audits is that they aren't convenient."

But speakers cautioned that while smart, such devices must be easy to understand and operate and require minimal effort from homeowners, Cetin said.

"The intelligent thermostat scheduling process based on the weather and electricity price can provide better comfort and reduced energy bills," speaker Ratnesh Tiwari, said. "Static scheduling does not take care of the weather conditions and thus is inefficient."

"Homeowners do not really want to be educated," Chong said. "They want it easier, individualized and credible. What's more needed is for building professionals to learn how to 'wow' customers. They could do a drive-by thermal camera picture and compare that to neighbors. Utilities could do a simple data-driven audit. The industry could learn a lot by looking at how solar companies sell solar panels."

See next page for continuation

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Home Smart Home: Residential Smart Building Devices Examined at ASHRAE Conference

Presentations in the seminar will focus on:

- Energy Use Insights from Inverse Thermodynamic-Based Modeling of Residential Buildings, Kristen Cetin, Ph.D., P.E., Iowa State University, Ames, Iowa
- Demand Prediction Using Connected Thermostat Residential Building Energy Models, Ratnesh Tiwari, Ph.D., University of Maryland, College Park, Md.
- Cornell Temperature Datalogger Project, Howard Chong, Ph.D., Cornell University, Ithaca, N.Y.

The seminar is part of the new Smart Buildings Track.

“Real time information and communication technology is continuously under development while the increase of the demand of smart buildings is witnessed and despite the oil prices and global economic conditions,” Samir Traboulsi, track chair, said. “This track addresses HVAC systems and their integration with access control systems, communication and data infrastructure and advanced building management systems and sustainability.”

The seminar is one of 108 sessions in the Technical Program, which is organized into eight tracks. The program features more than 400 speakers. For a full list of sessions and speakers, visit the new interactive technical program at www.ashrae.org/stlouisinteractivetechprogram.

Other sessions in the track are:

- Developing the Business Case for Submetering: Leveraging GSA's Portfolio to Demonstrate Submeter Functionalities, Range of Benefits and Cost Savings, June 26
- DDC for Smart Buildings and Smart Grid, June 26
- Examples of Smart Controls, June 26
- Smart Grid in the Heartland: See What Happens Next, June 26
- System Design, Diagnostics and Operation, June 26
- Data Sources toward Urban-Scale Energy Modeling, Part 1, June 28
- Regulatory Process Overview for Smart Grid, Smart Building and Demand Response
- Programs as Applicable to Building Owners and Utility Tariffs, June 28
- Smart Equipment: the Intelligent Buildings Revolution Is Happening in the Edge, June 29
- Data Sources toward Urban-Scale Energy Modeling, Part 2, June 29

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June 15, 2016
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Three ASHRAE Professional Certifications Earn ANSI Accreditation

ATLANTA – Three ASHRAE certifications have received accreditation from the American National Standards Institute (ANSI), joining the High Performance Building Design Professional (HBDP) certification that was accredited last year. Accreditation was approved May 23 for ASHRAE’s Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP) and Commissioning Process Management Professional (CPMP) under International Organization for Standardization (ISO)/ *International Electrotechnical Commission (IEC) 17024:2012*.

“Obtaining accreditation from ANSI speaks to the credibility of ASHRAE’s certification program, while demonstrating to the industry the value of those who hold the certifications,” David Underwood, P.Eng., CPMP, said. “As a holder of ASHRAE’s CPMP, I am grateful for the added value that comes from ANSI approval.”

The certifications that were accredited are:

Building Energy Assessment Professional (BEAP)

The BEAP certification program validates competency to audit, assess and analyze residential, commercial and industrial building energy use and develop related recommendations. Certified BEAPs also qualify to perform In Operations ratings for ASHRAE’s Building Energy Quotient (bEQ) program.

Building Energy Modeling Professional (BEMP)

The BEMP certification program validates competency to model new and existing building and systems with the full range of physics, and evaluate, select, use, calibrate and interpret the results of energy modeling software where applied to building and systems energy performance and economics. Certified BEMPs also qualify to perform As Designed ratings for ASHRAE’s Building Energy Quotient (bEQ) program.

Commissioning Process Management Professional (CPMP)

The CPMP certification program validates competency to develop and manage the whole building commissioning process with the owner.

More information about the program can be found at www.ashrae.org/certification.

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For Release:
 June 20, 2016
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ASHRAE 2016 Handbook Focuses on HVAC Systems and Equipment

ATLANTA – Revisions to the majority of chapters, including major updates related to thermal storage and district heating and cooling, are included in the newly published 2016 *ASHRAE Handbook – HVAC Systems and Equipment*.

The volume discusses various systems and the equipment, components or assemblies they comprise. It describes features and differences, to help system designers and operators in selecting and using equipment.

“Nearly 90 percent of the chapters have undergone revision since the 2012 volume was published,” Forrest Yount, volume chair, said. “That means there is a lot of new material for users to become familiar with. Many chapters have incorporated the results of recent research projects funded by ASHRAE.”

The volume contains two major updates to chapters. Chapter 12, District Heating and Cooling, has new content from ASHRAE research project RP-1267 (the new *District Heating Guide* and *District Cooling Guide*), while Chapter 51, Thermal Storage, has new content on grid reliability, renewable power integration, heat storage, emergency cooling, water treatment and commissioning.

Other updates that likely will impact many users include Chapter 19, Duct Construction, extensive revisions on system leakage and air dispersion systems; Chapter 33, Furnaces, updates for current technology and efficiency requirements; and Chapter 49, Unitary Air Conditioners and Heat Pumps, new information on U.S. regional appliance efficiency standards.

Other revisions and additions include:

- Chapter 7, Combined Heat and Power Systems, has a new section on economic evaluation and includes an update on EU Directive 2004/8/EC.
- Chapter 9, Applied Heat Pump and Heat Recovery Systems, has new content on waste heat recovery, district applications, and industrial process heat pumps.
- Chapter 18, Variable Refrigerant Flow, has new sections on modeling and system commissioning, and an updated system design example.
- Chapter 20, Room Air Distribution Equipment, has updates for current technology, with new information on specialized components and air curtains.

See next page for continuation

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ASHRAE 2016 Handbook Focuses on HVAC Systems and Equipment

Other revisions and additions include (continued):

- Chapter 21, Fans, has new sections on series fan operation and field performance testing plus added content on fan and motor efficiency grades and parallel multiple-fan operation.
- Chapter 25, Mechanical Dehumidifiers and Related Components, has new content on psychrometrics, outdoor air, controls, and industrial dehumidifiers.
- Chapter 26, Air-to-Air Energy Recovery Equipment, has new information on heat pipes and desiccant and heat wheel systems.
- Chapter 28, Unit Ventilators, Unit Heaters, and Makeup Air Units, has revisions on standards, controls, and fan selection for makeup air units.
- Chapter 37, Solar Energy Equipment, has new data on worldwide solar technology use, plus an expanded section on photovoltaic equipment.
- Chapter 38, Compressors, has revisions on general theory; screw and scroll compressors; and bearings, including oil-free technologies.
- Chapter 43, Liquid-Chilling Systems, has revised content on refrigerant selection and global warming potential.
- Chapter 44, Centrifugal Pumps, has new content on vertical, inline, split-coupled pumps; hydronic system pump selection; and differential pressure control.
- Chapter 45, Motors, Motor Controls, and Variable-Frequency Drives, has updates on standards, bearing currents, and permanent-magnet motors.
- Chapter 47, Valves, has new content on control valve sizing; electronic actuators; and ball, butterfly, flow-limiting, and pressure-independent control valves.

The volume is being published in a bound print volume and in electronic format on a CD-ROM and online, in two editions: one using inch-pound (I-P) units of measurement, the other using the International System of Units (SI).

The new 2016 volume also is available as one of the four current volumes included in ASHRAE Handbook Online. Members can subscribe for \$33 (list, \$289) and get immediate, searchable access to all four volumes in both I-P and SI units. The cost of the 2016 *ASHRAE Handbook – HVAC Systems and Equipment* print bound volume, which also includes the CD is \$209, in I-P or SI. The 2016 ASHRAE Handbook CD, which contains both the I-P and SI editions, costs \$189.

To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

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ASHRAE Co-organizes International Conference on Refrigeration in Mobile Marine and Fisheries Sectors

ATLANTA -- To address the replacement of HCFC-22 refrigerant in the mobile marine sector, ASHRAE is partnering with other international organizations to organize a conference titled "Sustainable Management of Refrigeration Technologies in Mobile Marine and Fisheries Sectors."

The conference takes place Jan. 11-13, 2017, in Bangkok, Thailand. It is co-organized by United Nations Environment Programme (UNEP), ASHRAE, the International Institute of Refrigeration (IIR) and United Nations Industrial Development Organization (UNIDO) with support from the Government of the Kingdom of Thailand and the Department of Industrial Works.

With 80 percent of mobile marine refrigerated systems using HCFC-22, the worldwide phase-out of this refrigerant must be addressed in developed and developing economies countries, according to UNEP.

"ASHRAE is committed to finding alternatives to high global warming potential refrigerants," ASHRAE President David Underwood said. "The global shift to new refrigerants (and in some cases return to old, natural refrigerants) means that many new refrigeration investment decisions will be made in the near future. ASHRAE is involved in making these decisions through our standards, research and conferences such as these. This conference will bring together leaders in the field from developed and developing economy countries to successfully implement the transition to new refrigerants." This conference examines current practices and future developments in the management of existing systems and trends towards longer term energy efficient, climate and ozone friendly alternatives in commercial on-board mobile marine refrigeration.

The conference technical program will include keynote speakers, seminar presentations, panel discussions and forums and covers three broad subjects:

- International, regional and national governance
- Environmental, health and safety management of new and emerging technologies
- Current, new and emerging practices and technologies in on-board marine refrigeration, including technology management and energy efficient, climate and ozone-friendly refrigerating and air-conditioning technologies.

Numerous topics are identified for each of these subjects. To see these topics, download the conference flyer or for more information, visit www.ashrae.org/marine2017. For questions, contact meetings@ashrae.org.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 55,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at www.ashrae.org/news.

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News

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For Release:
June 23, 2016
Contact: Jodi Scott
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ASHRAE Announces Call for Papers for 2017 Annual Conference, June 24-28, Long Beach

ATLANTA – ASHRAE has announced a call for papers for its 2017 Annual Conference in Long Beach, Calif., June 24-28, at the Hyatt Regency Long Beach.

This conference includes tracks that demonstrate the benefits of net zero energy and ways to achieve that goal in the design and operation of buildings. To submit a Conference paper abstract or a technical paper and for more information about the conference, visit www.ashrae.org/longbeach.

“Recently the building industry has seen a push in net zero energy (NZE) and California is on the forefront as Title 24 will require all new residential construction to be NZE by 2020 and all commercial buildings to be NZE by 2030,” Ann Peratt, chair of the 2017 Annual Conference, said. “The tracks and programs for the Annual Conference in Long Beach will focus on resources to design, build, control, commission and operate these high efficiency facilities.”

The conference will also include an HVAC&R focus on fundamentals, applications, systems, equipment, refrigeration, and residential standards and codes.

The “Net Zero Energy Buildings: The International Race to 2030” track will help design teams and owners to achieve NZE. Papers that evaluate various systems (including HVAC, building envelope, lighting, domestic water and renewable energy system), design strategies, construction measures, and building operation are sought. Papers addressing the worldwide implementation of codes and standards to reduce building energy consumption are sought.

Current requirements and upcoming changes to ASHRAE’s low-rise residential guidance, including Standard 90.2 (energy efficiency), Standard 62.2 (ventilation) and Guideline 24 (ventilation), are the focus of the “Residential Buildings: Standards Guidelines and Codes” track. The track seeks papers for cutting-edge residential systems that incorporate ASHRAE standards.

The “HVAC&R Systems and Equipment” track seeks papers that guide engineers, designers, contractors, owners and building operators in the design, selection and operation of traditional, non-traditional, and hybrid equipment and systems.

Also, papers are sought for tracks focused on buildings and their systems, such as “Commissioning: Optimizing New and Existing Buildings and their Operation,” “Controls: Smart Building Systems and the Security Concerns as Technology Emerges” and “Building Life Safety Systems.” Topics include protecting building systems from cyber-attacks, designing life safety systems and providing lessons learned and recommendations for successful commissioning projects.

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The “Refrigeration” track seeks papers that address the wide range of applications of refrigerants and their improvements and the “Fundamentals and Applications” track seeks papers ranging from fan laws and psychometrics to room air distribution and heat transfer and laboratories to schools and more.

For researchers, the fifth annual “Research Summit” brings together distinguished researchers to present the latest research results. Papers are requested on these topics:

- building science research that address the performance of buildings systems and occupant usage
- renewable energy research and its impact as we move towards net zero energy buildings

ASHRAE offers two types of paper submissions:

- Conference Papers: Abstracts due Aug. 29, 2016. Upon acceptance, final papers will be due Dec. 9, 2016. These “final” papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.
- Full Technical Papers, which are due Aug. 29, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

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For Release:
June 25, 2016
Contact: Jodi Scott
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Outstanding Achievements Recognized at ASHRAE's Annual Conference

ST. LOUIS — Ninety-two people were recognized by ASHRAE for their contributions to the Society and the built environment industry at the Society's 2016 Annual Conference held here June 25-29.

Louise and Bill Holladay Distinguished Fellow Award

Steven T. Taylor, P.E., Fellow ASHRAE, receives the Louise and Bill Holladay Distinguished Fellow Award. This annual award is given to an ASHRAE Fellow for continuous preeminence in engineering or research work. The honor was initiated in 1979 by Presidential Member Bill Holladay. Taylor is principal, Taylor Engineering, Alameda, California.

Andrew T. Boggs Service Award

Presidential Member H.E. "Barney" Burroughs, Fellow ASHRAE, Life Member, receives the Andrew T. Boggs Service Award. The award, named after ASHRAE's executive vice president emeritus, recognizes an Exceptional Service Award recipient for continuing unselfish, dedicated and distinguished service. Burroughs is president and CEO, Building Wellness Consultancy Inc., Johns Creek, Georgia.

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Outstanding Achievements Recognized at ASHRAE's Annual Conference (continued)

Distinguished 50-Year Member Award

The Distinguished 50-Year Member Award is given to individuals who have been a member for a minimum of 50 years, and who have performed outstanding service. The following 15 members received the award:

- Herman F. Behls, P.E., Fellow ASHRAE, Life Member, is retired from Sargent and Lundy Engineers, Chicago, Illinois. He resides in Arlington Heights, Illinois.
- Charles E. Bullock, Fellow ASHRAE, Life Member, resides in North Syracuse, New York.
- Eileen Duignan-Woods, P.E., Life Member, resides in Silver Spring, Maryland.
- Paul J. Halyard, P.E., Fellow ASHRAE, Life Member, is president emeritus, Peninsula Forensic Engineering Inc., Orlando, Florida.
- Norman W. Johnson, Life Member, was recognized posthumously.
- Ping Ki Kwok, Fellow ASHRAE, Life Member, resides in Happy Valley, Hong Kong.
- Denis J. Morris, P.E., Fellow ASHRAE, Life Member, resides in Halifax, Nova Scotia.
- Charles J. Procell, P.E., Fellow ASHRAE, Life Member, resides in Hartsdale, New York.
- James A. Scriven, P.Eng., Fellow ASHRAE, Life Member, resides in Halifax, Nova Scotia.
- J. Thomas Sobieski, Life Member, is retired as executive vice president, Miller-Picking Corp., part of York International Corp., Johnstown, Pennsylvania.
- Tseng-Yao Sun, P.E., Fellow ASHRAE, Life Member, resides in Rancho Palos Verdes, California.
- Carl A. Swenson, P.E., Fellow ASHRAE, Life Member, resides in Greeley, Colorado.
- Gordon B. Weld, P.Eng., Fellow ASHRAE, Life Member, resides in Halifax, Nova Scotia.
- John W. Welsh, Fellow ASHRAE, Life Member, was recognized posthumously.
- Gary L. Wingfield, P.E., Fellow ASHRAE, Life Member, resides in Sapphire, North Carolina.

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Outstanding Achievements Recognized at ASHRAE's Annual Conference (continued)

Distinguished Service Award

The Distinguished Service Award salutes members of any grade who have served the Society faithfully and with distinction and who have given freely of their time and talent in chapter, regional and Society activities. The following 34 members were recognized:

- Omar Abdelaziz, Ph.D., is a senior research and development staff and group leader, building equipment research group, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- James Bochat, Life Member, is president, Commissioning Concepts, based in Phoenix, Arizona.
- Wade H. Conlan P.E., CPMP, is principal, exp, Maitland, Florida.
- John D. Cowan, P.Eng., Life Member, is an independent consultant in the arts and sciences involved in the fair reporting of energy savings achieved by energy efficiency projects, Toronto, Ontario.
- Chuck Dale-Derks, P.E., is principal, McClure Engineering, St. Louis, Missouri.
- Drake H. Erbe is vice president of market development, Airxchange Inc., Rockland, Maryland.
- Robert H. Fuller, P.E., Life Member, is director of engineering, Metro CD Engineering LLC., Columbus, Ohio.
- Robert J. Hitchcock, Ph.D., is principal, Hitchcock Consulting, Sacramento, California.
- Walter D. Horn, P.E., is president/CEO, WH Engineering Inc., Richardson, Texas.
- Carl F. Huber, P.E., is vice president of corporate quality and sustainability, Waterfurnace International Inc., Ft. Wayne, Indiana.
- Bruce D. Hunn, Ph.D., Fellow ASHRAE, Life Member, is retired and resides in Raleigh, North Carolina.
- Robert A. Jones, P.E., is an engineer, Parker Sporlan Division, Washington, Missouri.
- Dennis R. Landsberg, Ph.D., P.E., Fellow ASHRAE, Life Member, BEAP, is president, L&S Energy Services Inc., Clifton Park, New York, and Henderson, Nevada.
- Karine Leblanc is sales engineer, U.S. Air Conditioning Distributors, City of Industry, California.
- Mark M. MacCracken, P.E., is CEO, CALMAC, Fair Lawn, New Jersey.
- Michael F. Mamayek, P.E., Life Member, is executive vice president, Illingworth-Kilgust Mechanical, West Allis, Wisconsin.
- Timothy P. McDowell, BEMP, is executive vice president, Thermal Energy System Specialists LLC., Madison, Wisconsin.
- Alex McGowan, P.Eng., is vice president of technical services, WSP Canada Inc., Victoria, British Columbia.
- Gregory Meeuwssen is staff engineer, acoustics and mechanics technology, Ingersoll Rand – Trane Commercial HVAC, La Crosse, Wisconsin.

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Outstanding Achievements Recognized at ASHRAE's Annual Conference (continued)

Distinguished Service Award (continued)

- Matthew C. Middlebrooks is senior product engineer, Filtration Group, York, South Carolina.
- Barbara Haviland Minor is senior technical fellow – refrigerants, The Chemours Co., Wilmington, Delaware.
- Ronald L. Petersen, Ph.D., Fellow ASHRAE, is with CPP Inc., Fort Collins, Colorado.
- Heather L. Platt, P.E., is senior associate, Mazzetti, Greensboro, North Carolina.
- Daniel R. Rogers, P.E., is president and owner, Flow Control Technology Co. LLC., Tampa, Florida.
- Steven Rosenstock, P.E., is senior manager, energy solutions, Edison Electric Institute, Washington, D.C.
- Anand K. Seth, P.E., Life Member, provides consulting services to healthcare clients. He resides in North Reading, Massachusetts.
- Frank Shadpour, P.E., Fellow ASHRAE, HFDP, is principal, SC Engineers Inc., San Diego, California.
- Harris M. Sheinman, P.E., is with the Centers for Disease Control and Prevention, Atlanta, Georgia.
- Som S. Shrestha, Ph.D., BEMP, is research and development staff, Building Technologies Research and Integration Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Benjamin A. Skelton, P.E., BEMP, CPMP, is president, Cyclone Energy Group, Chicago, Illinois.
- Robert C. Sonderegger, Ph.D., Life Member, is director and engineering advisor, Itron Inc., Oakland, California.
- Bodh R. Subherwal, P.E., Life Member, is president, BR Laboratories Inc., Huntington Beach, California.
- Scott Wayland, P.E., is mechanical engineering department manager, AEPC Group, San Ramon, California.
- Christopher K. Wilkins, P.E., is senior project manager, CRB, Medford, Massachusetts.

Journal Paper Award

Philip Bartholomew, P.E., receives the Journal Paper Award for the article, "Energy-Efficient Approach for Operating Rooms," judged to be the best article published in ASHRAE Journal. The article was published in April 2015. Bartholomew is senior mechanical project engineer, Miller-Remick, Cherry Hill, New Jersey.

Crosby Field Award

John A. Shonder and Cyrus H. Nasser are the recipients of the Crosby Field Award for their paper, "Achieving Deeper Energy Savings in Federal Energy Performance Contracts," which was judged to be the best paper presented before the Society. The Crosby Field Award is named for Presidential Member Field. Shonder is director of the U.S. Department of Energy's (DOE) Sustainability Performance Office, Washington, D.C. Nasser is program manager, U.S. DOE's Federal Energy Management Program, Washington, D.C.

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Outstanding Achievements Recognized at ASHRAE's Annual Conference (continued)

Technical Paper Award

The following papers received a Technical Paper Award, which recognizes the authors of the best papers presented at Society conferences.

James W. VanGilder, Zachary M. Pardey, Dustin W. Demetriou, Ph.D., H. Ezzat Khalifa, Ph.D., Fellow ASHRAE, Hamza Salih Erden, Ph.D., and Roger R. Schmidt, Ph.D., P.E., receive an award for "Proposal for Standard Compact Server Model for Transient Data Center Simulations." VanGilder is director of thermal analytics, Schneider Electric, Andover, Massachusetts; Pardey is a research engineer, Schneider Electric, Andover, Massachusetts; Demetriou is an advisory engineer, Advanced Thermal Energy Efficiency Lab, IMB Corp., Poughkeepsie, New York; Khalifa is NYSTAR Distinguished Professor, Department of Mechanical and Aerospace Engineering, Syracuse University, New York; Erden is assistant professor, Informatics Institute, Istanbul Technical University, Turkey; and Schmidt is Traugott Distinguished Professor, Syracuse University, New York.

David Pommerenke, Ph.D., Xu Gao, Atieh Talebzadeh, David E. Swenson, Mahdi Moradian, Ph.D., and Yunan Han, Ph.D., receive an award for "Dependence of ESD Charge Voltage on Humidity in Data Centers: Estimation of ESD Related Risk in Data Centers Using Voltage Level Extrapolation and Chebyshev's Inequality." Pommerenke is with the EMC Laboratory, Missouri University of Science and Technology, Rolla; Gao is antenna engineer, Apple Inc., Cupertino, California; Talebzadeh is a Ph.D. candidate, Missouri University of Science and Technology, Rolla; Swenson is president, Affinity Static Center Consulting LLC., Round Rock, Texas; Moradian is with the Department of Engineering, Amin Institute of Higher Education, Isfahan, Iran; and Han is an assistant professor, College of Information Science and Technology, Beijing University of Chemical Technology, China

Michael P. Case, Ph.D., Justine Yu, Richard J. Liesen, Ph.D., Alexander Zhivov, Ph.D., and Matthew M. Swanson, Ph.D., receive an award for "Integration of Master Planning and Energy Planning: From Detailed to Conceptual Analysis." Case is program manager for installations, Yu is a research architect, Liesen is senior research engineer in energy systems and Zhivov is a senior research engineer, U.S. Army Corps of Engineers, Engineer Research and Development Center, Construction Engineering Research Laboratory, Champaign, Illinois; Swanson resides in Houghton, Michigan.

Dennis L. O'Neal, Ph.D., P.E., Fellow ASHRAE, Douglas Damon Ingram and Carl Reid receive an award for "Modeling Fan Powered Terminal Unit Fan/Motor Combinations Controlled by Silicon-Controlled Rectifiers." O'Neal is dean, School of Engineering and Computer Science, Baylor University, Waco, Texas; Ingram is a research assistant, Baylor University, Waco, Texas; and Reid is a staff engineer, Bee USA, Austin, Texas.

Willis H. Carrier Award

Dustin W. Demetriou, Ph.D., and Hamza Salih Erden, Ph.D., receive the Willis H. Carrier Award, which is given to a member 32 years of age or younger for presenting an outstanding paper at a Society conference. The award is presented for "Proposal for Standard Compact Server Model for Transient Data Center Simulations."

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Outstanding Achievements Recognized at ASHRAE's Annual Conference (continued)

Lincoln Bouillon Award

Jessica Mangler, P.E., of the St. Louis Chapter, receives the Lincoln Bouillon Award, which recognizes a member who performs the most outstanding work in increasing membership. The award commemorates Presidential Member Bouillon's efforts in recruiting new members. Mangler is a mechanical engineer, Ross & Baruzzini, St. Louis, Missouri.

William J. Collins Jr. RP Award

Kimberly M. Thompson, P.E., HBDP, of the Houston Chapter, receives the William J. Collins Jr. RP Award. The award, named in honor of Presidential Member Collins, recognizes a chapter RP chair who excels in raising funds for ASHRAE's RP campaign. Thompson is director of higher education and laboratory markets, HTS, Houston, Texas.

Environmental Health Award

Francis J. Offermann, P.E., CIH, receives the Environmental Health Award, which recognizes excellence in volunteer service focused on environmental health issues. Offermann is president, Indoor Environmental Engineering, San Francisco, California.

Government Advocacy Award

Arthur D. Hallstrom, P.E., Fellow ASHRAE, Life Member, BEMP, of the West Virginia Chapter, receives the Government Advocacy Award. The award recognizes individuals for outstanding effort and achievement in state, provincial and local government activities in connection with technical issues related to the Society. Hallstrom resides in Crestview, Florida.

Lou Flagg Historical Award

Faye C. McQuiston, Ph.D., P.E., Fellow ASHRAE, Life Member, of the Central Oklahoma Chapter, receives the Lou Flagg Historical Award, which recognizes an individual for preparing the most outstanding historical presentation related to HVAC&R. The award is named in recognition of Presidential Member Lou Flagg, who promoted an interest in history. McQuiston is professor emeritus, Oklahoma State University, Stillwater, Oklahoma.

Student Activities Achievement Award

Ather Naseem Siddiqui, of the Northern Pakistan Chapter, receives the Student Activities Achievement Award, which recognizes a chapter Student Activities Committee chair for service related to the goals and growth of student activities. Siddiqui is CEO, Environmental Engineering Centre, Islamabad, Pakistan.

Standards Achievement Award

Jerry M. Sipes, Ph.D., P.E., receives the Standards Achievement Award, which recognizes exceptional service in the area of standards leadership and technical contribution. He was recognized posthumously. Prior to his death he served as vice president of engineering, Price Industries Inc., Suwanee, Georgia.

Ralph G. Nevins Physiology and Human Environment Award

Jovan Pantelic, Ph.D., receives the Ralph G. Nevins Physiology and Human Environment Award, which is given to a promising investigator for significant accomplishment in the general area of peoples' response to the environment. Pantelic is an assistant professional researcher, Center for the Built Environment, University of California, Berkeley.

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 June 27, 2016
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ASHRAE Installs New Officers, Directors

ST. LOUIS – ASHRAE has installed new officers and directors for 2016-17 at its Annual Meeting held here June 25-29.

The new president is Timothy G. Wentz, P.E., Fellow ASHRAE, HBDP, associate professor, University of Nebraska – Lincoln. As ASHRAE’s president, Wentz chairs the Society’s Board of Directors and Executive Committee. His theme, *Adapt Today to Shape Tomorrow*, is based on the goal in the Society’s Strategic Plan to adapt. Wentz relates this goal to his personal history of moving from a slide rule in his early college days to a hand calculator and now a computer or smartphone as an example of the challenges and opportunities inherent in adapting to new technology.

“All of us have had to come face-to-face with the challenges of adaptation,” he said. “It’s in the power of adapting that lives, organizations, and communities, are transformed. Our ability to shape tomorrow is borne out of our willingness to adapt today. Together, we can create our future by adapting our resources, investments and technology to shape a more sustainable world.”

Other officers installed for a one-year term are:

- **President-Elect:** Bjarne W. Olesen, Ph.D., Fellow ASHRAE, Life Member, professor, Technical University of Denmark, Kongens Lyngby, Denmark
- **Treasurer:** Sheila J. Hayter, P.E., Fellow ASHRAE, group manager, National Renewable Energy Laboratory, Golden, Colo.
- **Vice President:** Walid Chakroun, Ph.D., Fellow ASHRAE, professor, Mechanical Engineering Department, College of Engineering and Petroleum, Kuwait University
- **Vice President:** Patricia Graef, P.E., Fellow ASHRAE, senior engineer, evaporative media core technology, research and development, Munters Corp., Fort Myers, Fla.
- **Vice President:** Ginger Scoggins, P.E., president, Engineered Designs, Raleigh, N.C.
- **Vice President:** Edward Tsui, managing director, Intelligent Technologies Ltd., Hong Kong.

ASHRAE installed the following directors to serve three-year terms from 2016-19.

- **Region IV Director and Regional Chair:** George W. “Billy” Austin Jr., P.E., BEAP, BEMP, CPMP, HBDP, HFDP, OPMP, principal, Shultz Engineering Group, Charlotte, N.C.
- **Region V Director and Regional Chair:** Douglas David Fick, P.E., vice president, TRC Worldwide MEP, Indianapolis, Ind.
- **Region VI Director and Regional Chair:** Benjamin A. Skelton, P.E., BEMP, president, Cyclone Energy Group, Chicago, Ill.

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ASHRAE Installs New Officers, Directors (continued)

- **Region XII Director and Regional Chair:** Daniel R. Rogers, P.E., president, Flow Control Technology Co., Tampa, Fla.
- **Region XIII Director and Regional Chair:** Ir. Ng Yong Kong, NYK Engineering and Trading, and executive director, Bezair Sdn. Bhd., Subang Jaya, Malaysia
- **Director-at-Large:** Essam Eldin Khalil, Ph.D., Fellow ASHRAE, professor of mechanical engineering, Cairo University
- **Director-at-Large:** Thomas “Tom” M. Lawrence, Ph.D., P.E., Mechanical Engineering Program coordinator, professor, College of Engineering, University of Georgia, Athens, Ga.
- **Director-at-Large:** Lawrence C. Markel, Fellow ASHRAE, Life Member, senior program director, CSRA, Inc., Knoxville, Tenn.

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 July 8, 2016
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ASHRAE Wraps UP 2016 Annual Conference

ATLANTA – St. Louis served as the gateway to the future of HVAC&R as host to the ASHRAE 2016 Annual Conference, held there June 25-29. Nearly 1,800 people attended.

Installed as ASHRAE president at the Conference was 2016-17 president Timothy G. Wentz, P.E., Fellow ASHRAE, HBDP, associate professor, University of Nebraska – Lincoln. As president, Wentz chairs the Society's Board of Directors and Executive Committee. His theme, *Adapt Today to Shape Tomorrow*, is based on the goal in the Society's Strategic Plan to adapt. Wentz relates this goal to his personal history of moving from a slide rule in his early college days to a hand calculator and now a computer or smartphone as an example of the challenges and opportunities inherent in adapting to new technology. His speech can be read at www.ashrae.org/wentz.

"When it comes to change, we tend to 'hang on' to what feels safe as long as possible," Wentz said. "When we can't see the future we don't know how far we will fall. That can be frightening. We must work to shape tomorrow so we feel empowered to 'let go.'"

In other news, it was announced that ASHRAE's 2015-16 RP campaign reached a new high of \$2.57 million donated by members, chapters and companies. ASHRAE RP Campaign funds are used to support ongoing research projects, ASHRAE Learning Institute, Young Engineers in ASHRAE (YEA) Leadership activities and scholarships. Some 100 sessions with 400 speakers were offered as part of the Conference Technical Program. Trending at the event were sessions related to the philosophy and ethics of different building industry professionals, which examined how buildings are created by "constructive confrontation," via teams team of building industry professionals people drawn together with different education, training, method of working, communication skills and membership of professional bodies. A seminar was the ASHRAE Fellows Debate: Productivity is the Measure of Indoor Air Quality, in which two teams debated whether productivity can be measured. A seminar on Energy Management for Multi-Building Portfolios from the Owner-Operator and the Consultant Perspectives provided insights into successful energy management through the experiences of both consultants and owner-operators.

The Conference featured two full-day professional development seminars and eight half-day short courses from the ASHRAE Learning Institute. Popular courses were focused on variable refrigerant flow, troubleshooting humidity control and 90.1-2013 HVAC/Mechanical.

The ASHRAE 2017 Winter Conference takes place in Las Vegas, Nev., Jan. 28-Feb. 1, 2017. Held in conjunction with the Winter Conference is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 30-Feb. 1, at the Las Vegas Convention Center.

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Technical Program Set for ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference

ATLANTA – The technical program has been set for the ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference.

The conference takes place Aug. 10-12 in Salt Lake City, Utah. Early bird registration ends July 11, and hotel reservations are due July 15. For complete information, visit www.ashrae.org/simbuild2016.

The conference features some 100 speakers presenting practical applications of tools and case studies and papers on simulation, research and a deeper dive into current technology.

Conference paper sessions address a wide-range of current topics: model calibration and verification, urban scale modeling, uncertainty analysis, optimization, data visualization, reality captures for modeling, HVAC component modeling and load analysis, lighting and daylighting, CFD, energy auditing, life cycle cost and economic analysis, automation and scripting, combined use of tools, occupant comfort, energy efficiency and weather data.

Seminar (non-paper) sessions have an emphasis on simulation techniques and design. Case studies and demonstrations address standards and code compliance, such as ASHRAE Standard 205P, *Standard Formats for Equipment Data Exchange*, ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, and presentations on ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, ASHRAE Standard 205P, *Standard Formats for Equipment Data Exchange*, and IBPSA Project *BIM/GIS Modelica Framework for Building and Community Energy System Design and Operation*.

In all there are 17 conference paper sessions and 15 seminars with international participation from speakers.

Held in conjunction with the conference is the 2016 ASHRAE LowDown Showdown. Participants will model a net zero or below building. The baseline building for the challenge is a 50,000 square foot, three story outpatient health care facility. Nine teams and over 90 participants will create their model using the industry's major tools. Team names include:

- The DeeBees
- The EUI Evangelists (TEE)
- The BEM Bang Theory
- Energy Derailment
- Insane Energy Savers
- Outpatient Zero
- Quest for Zero
- Newbie Energizers

The conference will cover two-and-a-half days, includes a “virtual conference” (recordings of presentations) and provides PDHs, AIA LUs and LEED AP credits. Preceding the conference are two days of training seminars and short courses.

Early bird registration for the conference ends July 11. To register for the conference, visit www.ashrae.org/simbuild2016.

IBPSA-USA is the United States regional affiliate of the [International Building Performance Simulation Association \(IBPSA\)](http://www.ibpsa.org). The mission of IBPSA-USA is to advance and promote the science of building simulation in order to improve the design, construction, operation and maintenance of new and existing buildings in the United States.

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 July 25, 2016
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ASHRAE Reaches Highest Membership in 14 Years

ATLANTA – ASHRAE, long known for its contributions to the built environment technology industry, now boasts more than 56,000 members. ASHRAE membership is individual based, reflecting the Society's diverse representation of building system design and industrial processes professionals around the world.

"This growth reflects ASHRAE's influence on building standards and best practices around the world," Tim Wentz, ASHRAE president, said. "Our members recognize that the Society increasingly provides opportunities to network with the global built environment's best and brightest."

In 2016, ASHRAE reached 56,105 members, its highest in 14 years. ASHRAE currently has 181 chapters, 41 sections and 234 student branches around the globe, with members in 130 countries.

Seventy nine percent of ASHRAE's total membership is based in the U.S. and Canada, while 21 percent is from other countries, an increase from 18 percent from two years ago.

ASHRAE's Region-at-Large, which encompasses the Middle East, Pakistan, Sri Lanka, India, Africa and Europe, had the largest percent gain in membership in the Society year of 2015-16.

"From expansion into residential markets to providing resources for the quickly changing refrigerant industry, ASHRAE will continue to use the expertise of its members to further the technology of tomorrow," Wentz said. "At the same time, ASHRAE is partnering with other organizations dedicated to working toward a more sustainable environment, creating a worldwide best-practices databank of innovative and successful technologies that will serve the built environment community."

ASHRAE currently has more than 130 published standards and guidelines and is one of only six standards-developing organizations in the U.S. that can self-certify that its standards have followed American National Standards Institute's (ANSI) standards development procedures.

The Society is also one of the only HVAC&R organizations that maintains its own research program, which currently has 56 active research projects with a combined value of more than \$9 million. That research is overseen by some 100 technical committees representing 4,200 people.

ASHRAE produces hundreds of publications, including the ASHRAE Handbook, books on specialized topics within the field, and various CDs and DVDs. The Society also publishes the peer-reviewed monthly ASHRAE Journal, quarterly High Performing Buildings and bimonthly Science and Technology for the Built Environment.

Through the ASHRAE Learning Institute, ASHRAE offers more than 100 courses in a variety of formats, including eLearning, professional development seminars, short courses and self-directed learning courses. In addition, ASHRAE offers six certification programs for individuals.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 55,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at www.ashrae.org/news.

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Building Performance Analysis Focus of ASHRAE 2017 Modeling Conference

ATLANTA – The need for practical building modeling applications along with the need to transform the design approach to a collaborative process from a sequential process will be explored in an upcoming specialty conference organized by ASHRAE.

The 2017 ASHRAE Building Performance Analysis Conference takes place Sept. 27-29, 2017, in Atlanta, Ga. The conference, formerly known as the ASHRAE Energy Modeling Conference, has a broadened scope that encompasses all uses for and aspects of modeling and the professionals responsible for that work throughout a building's lifecycle. More information can be found at www.ashrae.org/BuildPerform2017.

“Building performance simulation is evolving into a multidisciplinary effort for projects,” Dennis Knight, conference chair, said. “The long-term goal is to create models during one phase or by one discipline that can be used, relied upon and furthered developed and refined by other disciplines as the project, its data and details grow throughout the building's life cycle.”

The conference topics include early phase analysis and the potential to reduce construction cost by many times the modeling cost; energy costs and construction costs; financial analysis/performance; energy analysis; monitoring coupled to predictive analysis to improve existing building performance; regulatory and building rating system compliance; analysis for retrocommissioning and ongoing commissioning, lighting/day lighting and water use optimization.

The conference program will consist of keynote speakers, invited speakers, a call for presenters and the ASHRAE Low-Down Showdown.

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ASHRAE IAQ 2016 Conference Announces Keynote Speakers, Technical Program Preview and Early Bird Registration Deadline

ATLANTA – The keynote speakers for the IAQ 2016 Defining Indoor Air Quality: Policy, Standards and Best Practices Conference have been announced. The conference, co-organized by ASHRAE and AIVC, takes place Sept. 12-14, 2016, in Alexandria, Va., at the Crowne Plaza Old Town Alexandria.

The **Early Bird Registration** rates of \$550 for ASHRAE members and \$600 for non-members, are available through Aug. 18. For more information and to register, visit www.ashrae.org/IAQ2016.

The conference seeks to facilitate understanding of current indoor air quality policies, standards and best practices. Themes include regulatory vs. voluntary compliance for achieving IAQ, the role of IAQ in sustainable building programs and the relationship between IAQ and IEQ. The technical program includes internationally acclaimed keynote speakers, conference papers and steering committee-organized sessions comprised of industry leaders in various aspects of indoor air quality.

The keynote speakers are:

- Chris Pyke, U.S. Green Building Council
- Howard Wolf, HW3 Group (IICRC)
- Pawel Wargocki, Technical University of Denmark
- David Jacobs, National Center for Healthy Housing
- David Rowson, U.S. Environmental Protection Agency

Thirteen paper sessions with 60 papers are included, covering IAQ metrics, ventilation and IAQ measurement methods, residential IAQ, natural ventilation, infiltration, approaches and tools for achieving better IAQ and others. The technical program's strength is in the steering committee's influential industry ties to organize 13 sessions on current IAQ practices, standards and best practices with speakers who are leaders in the industry. These sessions include:

- Where Are We Going with IAQ Metrics?
- Future of IAQ Sensors and Controls
- Demand-controlled Ventilation
- The Policymaker's Perspective
- IEA EBC Annex 68 Project: IAQ Design and Control in Low Energy Residential Buildings
- Evolution and State of the Art of the Residential Ventilation Standard for North America (ASHRAE 62.2)
- Continuous Assessment of IEQ

See next page for continuation

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ASHRAE IAQ 2016 Conference Announces Keynote Speakers, Technical Program Preview and Early Bird Registration Deadline (continued)

The session “IAQ Standards Around the World: Where We Are and Where We Want To Be” discusses the current status of IAQ standards and guidelines throughout the world and how they might change in the future, particularly given the current focus on net, or near, zero energy and high performance buildings.

Also, “Practical Strategies for Achieving IAQ in High Performance Buildings” discusses performance measurements to assess the achievement of IAQ in high performance buildings and materials specifications programs to guide improved IAQ by better materials selection to reduce contaminant sources.

In all, some 130 presentations will take place during the two-and-a-half day conference.

To make reservations at the Crowne Plaza Old Town Alexandria Hotel, call 1-800-227-6963 or 1-877-317-5752 and reference the group “ASHRAE IAQ 2016 Conference” to receive the negotiated room rate. Or go online [here](#) with the group code A7Z. Room reservations must be made by **Aug. 18, 2016**, to guarantee availability and the negotiated room rate of \$159.

The Indoor Air Quality Association and the Indoor Environmental Quality Global Alliance are partnering organizations. ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 56,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

AIVC (Air infiltration and Ventilation Centre) is the IEA information center on energy efficient ventilation. In recognition of the significant impact of ventilation on energy use, combined with concerns over indoor air quality, the International Energy Agency (IEA) inaugurated the AIVC in 1979. The AIVC offers industry and research organizations technical support aimed at optimizing ventilation technology. The AIVC offers a range of services and facilities, including comprehensive database on literature standards, and ventilation data. For more information, visit www.aivc.org.