



VOLUME 10, ISSUE 10

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**Rochester
Chapter**



Region I

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

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.

(refer to page 8)

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Chapter Officers

President
Christina Walter
585-486-2148
cmwalter@trane.com

President Elect
Jeff Close, PE
585-289-6816 / 218-0737(fax)
jeff.close@pres-services.com

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

Treasurer
Paul Kenna, PE
585-272-4650
pkmkenna@gmail.com

Committee Chairs

CTTC
Jeff Wiedrick 585-232-5137 x354
jwiedrick@bergmannpc.com

Grassroots Government Advocacy
Tom Burke 585-429-3594
tom.burke@wegmans.com

Refrigeration
Michael Nohle 585-216-9016
mikenohle@aol.com

Historian
Lee Loomis 585-738-3079/262-4156(fax)
leeloomis46@gmail.com

Membership
Jake Hall 585-869-5125
jhall@proairplus.com

YEA
Matt Kremers 585-398-8018
mkremers@mcsmms.com

Student Activities
Chris Lukasiewicz 585-381-3360 x135
clukasiewicz@turnerengineering.com

Education
Bill Murray 585-641-7121
Bmurray@ec4b.com

Board of Governors

Scott Edwards (3)
585-742-4813
scott.g.edwards@jci.com

Mike Benedict (3)
585-490-2661
mike@airsystemsbalancing.com

Branden Farnsworth-Weinblatt (2)
585-364-1628
bfweinblatt@poplgroup.com

Tom Streber (2)
585-272-9450
tstreber@jswanson.com

Steve Dear (1)
585-325-1290
sdear@crosbybrownlie.com

Sam Scorsone (1)
585-232-5135
sscorsone@bergmannpc.com

Newsletter Editor
Scott Edwards
ashraerocnews@gmail.com

Attendance & Reception
Timothy Duprey 585-330-6430
tduprey@rochester.rr.com

Publicity
Mark Kukla 585-232-3440
mark@airsystemsbalancing.com

Research Promotion
Matt Devlin 585-232-5135
mdevlin@bergmannpc.com

Webmaster
Kevin Wind 585-263-1280
kwind@rochester.rr.com

Nominating
Ed Burns 585-739-7548
ejb@mechtechvac.com

Buyer's Guide
Marianne Schumacher 585-217-3942
marianne.schumacher@jci.com

ASHRAE Region I - Chapters Regional Conference (CRC)		
Date	Event	Location
8/18/16 - 8/20/16	<u>SAVE THE DATE</u> - The Rochester ASHRAE Chapter is hosting the Region I CRC.	Hyatt Downtown

Presidential Award Of Excellence



Download



Achievements



Report

Chapter:

Fiscal Year:

▶ Chapter Operations	Par: 1000	Min Points: 400	Total Points: 1250
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 450
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 0
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 100
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 760
▶ RP	Par: 1050	Min Points: 800	Total Points: 395
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 0

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.

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 June Message

June President's Message:

As I write my final President's message, the ASHRAE calendar year is almost complete. Thank you to all that attended our annual ASHRAE picnic/golf tournament last month. It was a great success, namely because of the tremendous support from our sponsors, as well as the many hours that both Jim Browe and Kacie Hoffman put into pulling this event together. They do an awesome job, thank you Jim & Kacie! At the picnic the 2016-2017 Rochester Chapter Officers and Board of Governors were announced:

Chapter Officers

President	Jeff Close
President Elect	William Clark
Treasurer	Paul Kenna
Secretary	Tom Streber

Board of Governors

BOG 3rd year	Branden Farnsworth-Weinblatt
BOG 3rd year	Tim Duprey
BOG 2nd year	Steve Dear
BOG 2nd year	Sam Scorsone
BOG 1st year	George Herman
BOG 1st year	Mike Benedict

On Saturday, June 11th we will have a Trap/Skeet Outing at Rochester Brooks. Thank you to Matt Devlin for putting this event together. It will be a lot of fun!

August 18-20 we are honored to host the ASHRAE Region I Chapter Regional Conference (CRC). Our Chapter is currently seeking sponsorships to defray the costs associated with the CRC in an effort to reduce the costs for attendees of this event. If you are interested in sponsoring this event, please contact Jim Browe (jbrowe@rfpeck.com). Please see additional page in this issue that highlights in more detail the CRC. Come and enjoy **Making Connections!**



Christina Walter, 2015-2016 President

As my term as President comes to an end I would like to welcome our incoming President, Jeff Close. Jeff did a fantastic job with orchestrating our Programs this year, and I know he will do an incredible job serving as our President. In addition I want to thank the team of 25 volunteers that helped to make our Chapter run this year. This includes Chapter Officers, Board of Governors, and many behind the scenes Committees. Without your help, our Chapter could not function. Thank you!!! Enjoy your summer, spend time with your family, and we'll see you back in September for our Clambake!

Continue to check out our website at www.rochester.ashraechapters.org for our officer list and contact information, current newsletter, CRC information and more! Or if Facebook is your preferred method of communication take a moment to 'like' us at www.facebook.com/#!/ashraerochester.

Christina Walter
2015-2016 President - Rochester Chapter

Highlights from May ASHRAE Picnic / Golf Tournament

BELOW: YEA Frisbee Golf (at Ellison Park)



LEFT: Winners of the 2016 Tournament, Nick Optis Jr., Ryan Gottermeier, Mark Friscano, and Drew Reagan (not pictured)

RIGHT: Board of Governors for 2016-2017, left to right: Jeff Close (President), Tim Duprey (BOG 3rd Yr), Brandon Farnsworth-Weinblatt (BOG 3rd yr), Bill Clark (President Elect), Paul Kenna (Treasurer), Tom Streber (Secretary), George Herman (BOG 1st Yr), Mike Benedict (BOG 1st Yr). Not Pictured: Steve Dear (BOG 2nd Yr) and Sam Scorsone (BOG 2nd Yr).



ABOVE: The day ended with a dinner catered by Dinosaur Barbeque.

2016 AHSRAE Golf Tournament & Picnic



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Thank you for your support

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Gray Metal Products, Inc.

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- JWS
- IBC
- J.T. Mauro Co. Inc.
- R.P. FEDDER CORPORATION
- danforth
- LOGICAL CONTROL SOLUTIONS
- Engineering P.C.
- Johnson Controls
- M/E ENGINEERING, P.C.
- LG
- MECHTECH HVAC
- massive TESTING & BALANCING, LLC
- Northern-Air
- mp&sm LLC
- PATHFINDER ENGINEERS & ARCHITECTS LP
- VQ
- MODULAR COMFORT SYSTEMS
- KISTLER
- P&J
- TURNER ENGINEERING, P.C.
- RF PECK Commercial HVAC Equipment
- *RL Stone company inc
- SIEMENS
- Bergmann associates architects // engineers // planners
- TRANE
- Ventrol



Cornell University

Cornell Careers
CHANGE THE WORLD WITH US

Infrastructure Properties and Planning's Facilities Engineering Department is currently conducting a search for a [Mechanical Engineering Section Manager](#)!

Department Background

Facilities Engineering (FE) serves as a center for technical subject matter expertise and stewardship related to facilities and infrastructure. FE is made up of 30 staff comprising four technical discipline sections including Architecture & Structural Engineering, Mechanical Engineering, Electrical Engineering and Civil & Environmental Engineering. Each staff member in Facilities Engineering has a diverse work portfolio based on their area of expertise. FE provides Architecture & Engineering Services including studies, condition assessments and construction documents. FE also supports maintenance activities on campus through planning and prioritization. Lastly, FE acts as the University steward for project design reviews and the University design and construction standards.

Go to <https://fe.fs.cornell.edu/> to learn more

Rewards & Benefits

- Competitive compensation, health insurance, and a 403b retirement plan with generous employer contribution
- Generous paid leave provisions: 3 weeks of vacation, 12 holidays
- Impressive educational benefits, including: tuition-free Extramural Study & Employee Degree Program, Tuition Aid for external education, Cornell Children's Tuition Assistance program
- A rich array of services, programs and benefits to help employees advance in their career and enhance the quality of life, including: employee wellness, workshops, childcare and adoption assistance, parental leave, flexible work options. For more information, follow the link.

Go to <https://www.hr.cornell.edu/benefits/>

Key Responsibilities

Provide leadership and technical expertise in a team oriented environment for the Facilities Engineering Mechanical Engineering Section. The Mechanical Engineering Section Manager will work as a team member with Architecture, Structural Engineering, Electrical Engineering, Civil & Environmental Engineering and the Administrative Group section managers to deliver effective and efficient architecture and engineering services. Assist in developing business strategies and workflow management as a key member of the Facilities Engineering leadership team.

Core Qualifications

Bachelor's degree in Mechanical Engineering is required, as well as a New York State Professional Engineering license (or be licensed in another state and be able to obtain a NYS license within 12 months). 10+ years of related experience that includes technical design and management, including three years' experience in leadership role(s). Must have experience in capital project management and be capable of mentoring staff in this skill. Must be skilled in facilities mechanical system design including HVAC, laboratory design, fire protection, and utilities distribution and a working knowledge of the NYUBFC, ASHRAE standards and NFPA codes.

https://cornell.wd1.myworkdayjobs.com/en-US/CornellCareerPage/job/Ithaca-Main-Campus/Mechanical-Engineering-Section-Manager_WDR-00007743-2

For a more detailed description and to create a profile online please [click here](#) and get connected to Cornell recruiters. Due to the high volume of responses, only those applicants who best match our needs will be contacted for an interview.



**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?

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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
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
SATURDAY, August 20, 2016	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.

Platinum Level \$5,000

Gold Level \$2,500

Silver Level \$1,000

Bronze Level \$500

It's ASHRAE Clambake Time!!!



Come Celebrate Our 75th Anniversary!

Thursday, June 9, 2016 4—8 PM

Hinderwadel's Grove, North Syracuse

Special 75th Anniversary Ticket Price — \$45.00

Fun, Food, Drinks, Games and More!

The bake is a continuous buffet featuring the following:

- Steamed clams, raw clams, clam chowder, roast pig
- Fried chicken, BBQ beef and pork sandwiches
- Desserts & beer on tap!



Major Door Prizes!

60" Flat Screen, Uncle Sam Boat Tours, Adirondack Scenic Tours,
greens fees at local courses, and more!

Tickets Go On Sale May 1st!

For tickets contact Bonnie Henderson c/o Syracuse Thermal Products @ 315.437.7321

Tickets can be purchased through PayPal (\$46). To purchase tickets online, visit
<http://centralnewyork.ashraechapters.org> and click on the link "Buy Clambake Tickets."

Mail checks payable to: CNY Chapter ASHRAE and send to:

Syracuse Thermal Products, Inc.

P.O. Box 398

East Syracuse, New York 13057

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

May 6th, 2016 7:30 AM

Location: Trane, 75 Town Centre Dr.
Rochester, NY 14623

AGENDA

President / CRC Delegate	Christina Walter	X
President Elect / Program/ CRC Alternate	Jeff Close	X
Secretary	Bill Clark	X
Treasurer	Paul Kenna	
Immediate Past President	Ed Burns	
Board of Gov. (1)	Steve Dear	
Board of Gov. (1)	Sam Scorsone	
Board of Gov. (2)	Branden Farnsworth-Weinblatt	
Board of Gov. (2)	Tom Streber	X
Board of Gov. (3)	Mike Benedict	
Board of Gov. (3)	Scott Edwards	
Attendance	Tim Duprey	X
Historian	Lee Loomis	
Membership Promotion	Jake Hall	X
Newsletter Editor	Scott Edwards	
Resource Promotion	Matt Devlin	X
Awards	Al Rodgers	
CTTC	Jeff Wiedrick	X
Education	Bill Murray	
Publicity	Mark Kukla	
Website	Kevin Wind	
YEA Chair	Matt Kremers	
Student Activities	Chris Lukasiewicz	
Nominating (2 nd Past President)	Michelle Sommerman	
Picnic/Golf Chair	Jim Browe	
Buyers Guide	Marianne Schumacher	
Valentine's Dinner Dance	Jody M. McGarry	
Chapter Tech Energy & Govt Activities	Tom Burke	
Refrigeration	Mike Nohle	

Board of Governors Meeting Minutes

Roll Call: The above noted individuals were present.

Call to Order: 7:36 AM

Meeting Minutes:

1. Call to Order Chris Walter
2. Roll Call Bill Clark
3. President Elect / Program Jeff Close
 - Last meeting is Golf Tournament/Picnic - all ready to go
 - CRC will be promoted at picnic
 - Matt needs help selling 50/50 tickets at registration for RP - Jeff Wiedrick to help
4. Approval of previous meeting's minutes All
 - Approved by Jeff Close
 - Second by Tim Duprey
5. Treasurer's Report 2015/2016 Paul Kenna
 - Report Sent, Paul not present
 - Report reviewed in meeting
 - We need to move our accounts to ESL.
 - A balance transfer will be made from the PayPal checking to the regular checking before the picnic to cover picnic costs.
6. Committee Reports
 - Technology Transfer Committee Jeff Wiedrick
 Program/Tech Sessions
 Technology Transfer
 - Last year's submission did not win the region.
 - Membership Jacob Hall
 - Added 18 new members this year, lost 15 this year due to retirements and moving.
 - Student Activities Chris Lukasiewicz
 - No report.
 - PAOE points need to be updated.
 - Education Bill Murray
 - No report.
 - PIE membership was renewed.
 - What is the scholarship status with RIT?
 - What are the rules on giving out the scholarship money?
 - YEA Matt Kremers
 - No report.

Board of Governors Meeting Minutes

- Awards & Recognition Al Rodgers
 - Chris to confirm with Al who is to receive the Realto Cherne award.
 - Resource Promotion Matt Devlin
 - Matt to get Tim Duprey the updated form for the Trap/Skeet Shoot.
 - We can have the event added to PayPal for online payments.
 - Refrigeration Mike Nohle
 - No report
 - Grassroots Government Advocacy Tom Burke
 - No report
 - Newsletter Scott Edwards
 - No report
 - 1 newsletter left for the RES this year
 - Buyers Guide Marianne Schumacher
 - Ads to be updated on the website.
 - Marianne to document buyers guide process.
 - Attendance Tim Duprey
 - April meeting was very well attended. 91 people total
 - Tim is looking into new venues, Pomodoro is a potential venue.
 - Historian Lee Loomis
 - No report.
 - Jake Hall has offered to come in as the new Historian.
 - Publicity Mark Kukla
 - No report.
 - Website Steve Dear
 - No report.
 - Nominating Ed Burns
 - Elections have been completed.
 - New board will be announced at picnic.
 - CRC 2016 General Chair Jim Browe
 - Planning is progressing.
 - Valentine's Dance Jody McGarry
 - No report
 - Picnic Jim Browe
 - Ready for Monday.
7. Old Business
- Log PAOE points. Create/Update your Biography on www.ASHRAE.org website
 - New location for meetings is being researched
8. New Business
- Potential Candidates to take over as Rochester Chapter Historian
 - RP Trap/Skeet shoot event: June 11th
9. Next BOG meeting: Thursday, June 9th 7:30 am at Trane.
10. Adjourn 8:54 am



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.



Tips for ASHRAE Scholarship Applicants

Make sure ...

- You meet all applicable criteria
- You read the application carefully and answer all questions completely and honestly.
- The application and all required documents are submitted or postmarked on or before the applicable deadline.
- Your application is NEAT, legible (typed or handwritten clearly), and proper English (correct grammar and spelling) is used when responding to essay questions.
- To take time to submit a brief, non-required introductory cover letter
- You are clear and thorough when stating goals and financial need.
- You contact the nearest ASHRAE chapter for an interview with the Student Activities Chair or other officer to learn more about the Society.
- You find out if your school hosts an ASHRAE student branch.
- You contact ASHRAE headquarters if you have any questions and to ensure your application has been completed and submitted properly.

More information on the scholarship and details on how to apply can be found at www.ashrae.org/scholarships.

Get Your Company into the 2016 Buyers Guide Today!

What are the benefits to being in the ASHRAE Buyers Guide??

- **Publication of your business and services**
- **Attract new customers**
- **Generate visibility and awareness at ASHRAE participating events inside and outside of the industry**
- **Strengthen communications between, manufacturers, sales representatives, engineers who specify products and contractors who purchase / install those products**





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

Visit the Rochester ASHRAE website to check out more or pay by PayPal!

Have Questions??

Contact: Marianne Schumacher
585-217-3942



Shaping Tomorrow's
Built Environment Today



SAVE THE DATE – 6/11/16 – ASHRAE TRAP /SKEET OUTING

Trap & Skeet Shooting Outing

Please join us on Saturday, June 11th 2016 at Rochester Brooks Gun Club for a Trap & Skeet shooting outing. Registration details will be available in the coming weeks. Shooters will need to provide their own firearms. Please contact Matt Devlin for more information mdevlin@bergmannpc.com.

ROCHESTER BROOKS
INTERNATIONAL TRAP & SKEET CLUB, INC.

**SAVE THE DATE
6/11/16**

**Skeet & Trap
Fields**

**Sandwich Platter
Lunch Following
event in the
clubhouse**

**All proceeds
benefit ASHRAE
Research**

**Prizes awarded to
top shooters**

ROCHESTER BROOKS

962 Honeoye Falls #6 Rd.,
Rush, NY 14543

[Directions](#)

Saturday, June 11th
10:00AM

Join us at ASHRAE's 2016 Annual Conference

June 25-June 29 St. Louis, Missouri

www.ashrae.org/stlouis



May Keynotes

The final preliminary Technical Program for the 2016 Annual Conference is now [available online](#). Don't forget to [register](#) before June 7th to receive the discounted rate. The Conference kicks off at the Missouri History Museum where you can reconnect with friends and meet new ones while exploring a variety of exhibits, including "Route 66: Main Street Through St. Louis" and "The Little Black Dress, From Mourning to Night." We hope to see you all there!

**Please be aware that members that expire/cancel on June 30, 2016
count toward the 2015-2016 PAOE year.**

Since 40% of ASHRAE members are still on the July to June membership year, this could represent a significant amount of your chapter members. Due to these members still being active until June 30th at 11:59 pm EDT, you will need to do a little research to see who hasn't paid yet. You will not receive the automated expiration notification about these members until July, once the current Society year is over.

To see which members will expire on June 30, 2016 if they do not renew this month, run the **Member Master Report** from the Chapter Reports Management Web page.

1. Click any cell in your sheet.
2. Turn on the filter tool in Excel. This is usually on the home page of Excel or can be located under the "Data" tab at the top of the screen. It looks like a funnel.
3. You will now notice little drop down arrows next to each of the column headers. Locate "End Date" which is column "AM"
4. To display members that expire on June 30, 2016, uncheck the box next to "Select All" at the top of the list and then scroll down till you find "2016-6-30"
5. Click the box next to the date and then click "Ok".
6. Now locate "Print Grade" in column "BQ" to exclude Students (Students do not count toward your MP PAOE points) using the same procedure as steps 4 & 5.

These are the people that have yet to pay their Society dues and will expire on June 30th.

Reach out to them and let's make this the best year yet for ASHRAE Membership Promotion!

ASHRAE Member Spotlight

Laura Morder

Washington D.C. Chapter Co-Chair of Women in ASHRAE
Associate Mechanical Design Engineer
GHT Limited



Meet Laura Morder, co-chair of the Women in ASHRAE committee in Washington D.C. and Associate Mechanical Design Engineer for GHT Limited. As a founding member of the WiA committee for ASHRAE's National Capitol Chapter, Morder is passionate about helping aspiring engineers spread their wings in the building design industry as she once did at Pennsylvania State University. Since 2009, Morder has benefitted from making connections within the Society, while fueling her childhood love for design and growing the building industry every step of the way. [Learn more](#) about how Morder's influence is impacting ASHRAE's Society.

Boost Your 2016-17 PAOE Points with Reach

The new [ASHRAE Reach Employer Support Program](#) is designed to help make your employer site visits more impactful and provides a great opportunity to earn more PAOE points.

The 2016-17 PAOE allows points for the following visits related to employer support:

- 75 points for organizing an employer recognition event to promote the benefits of ASHRAE membership for company members
- 50 points if a chapter hosts a visit by regional officer, Society officer or Society Board of Directors member to conduct employer dialogue/roundtable/recognition event (per key employer office visited)

Senate Passes Comprehensive Energy Bill, Opening the Door for Possible New Law this Year

A big win for ASHRAE! The US Senate passed the Energy Policy Modernization Act ([S.2012](#)) by an overwhelming bipartisan vote of 85 to 12. The Energy Policy Modernization Act is a comprehensive bill that includes many provisions of interest to ASHRAE, such as:

- Support for building energy codes
- The SAVE Act
- Allowing Federal disaster relief funds to be used for energy efficient structures and products (references Standard 90.1-2013)
- Formally establishing the WaterSense program
- Support for data center energy efficiency
- Reauthorization of the Weatherization Assistance Program and State Energy Program
- Workforce development, including the establishment of building training and assessment centers

Save Up to \$100 On Your Certification Application Through June 30th



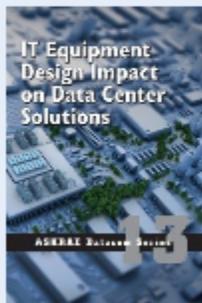
Are you ready to take the next step in your career? After having remained the same for nine years, certification application fees will increase beginning July 1. After you apply, you have three months to schedule and sit for your exam - so why wait?!

Already recognized by over 25 national, state and local government bodies – and with over 2,250 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Apply by June 30 to sit for an ASHRAE Certification exam in one of these key fields: Energy Assessment | Energy Modeling | Commissioning | Healthcare Facility Design | High Performance Building Design | Building Operations.

Contact **Erin Dupree, Certification Coordinator** with questions.

Latest Text Brings ASHRAE Publications to Lucky 13



The latest in the Datacom series, *IT Equipment Design Impact on Data Center Solutions*, equips facility planners, operators, IT equipment manufacturers, HVAC&R manufacturers, and end users with the knowledge to select the equipment and design best suited to the modern and evolving data center.

ASHRAExCHANGE

Want to stay updated with ASHRAE instantly? Log onto to ASHRAExCHANGE to ask questions, discuss industry news and connect with other engineers!



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News

1791 Tullie Cir. NE | Atlanta, Ga. 30329-2305 | 404-636-8400 | www.ashrae.org

For Release:
 May 3, 2016
 Contact: Jodi Scott
 Public Relations
 678-539-1140
jscott@ashrae.org

ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference Spotlights Practical Application

ATLANTA – ASHRAE has announced a preliminary technical program for the ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference.

The conference takes place Aug. 10-12 in Salt Lake City, Utah. For complete information, visit www.ashrae.org/simbuild2016.

The conference focuses on practical applications with an emphasis on simulation techniques and design. Presentations are given on topics such as, Simulation-Based Metrics in Well and LEED Rating Systems, which discusses building-performance standards intended to affect 90 percent of new construction projects in the United States. Rethinking Climate and Weather Data for Building Simulation examines a new system for climatic data representation in buildings. How to Include the Impact of Thermostat into Building Load Calculation is a presentation that explores a process that includes the impacts of thermostat, including the set point and location of the thermostat on building loads.

Case studies and demonstrations are also scheduled that address standards and code compliance. Topics such as Closing the Simulation Gap Between Zero Energy Buildings and Code Compliance and a session that covers ASHRAE Standard 205P, *Standard Formats for Equipment Data Exchange*, are included in the conference program. Keynote speakers will also be added to the program, as well as conference papers. There are 79 papers currently under review. “This conference offers highly valuable information for industry practitioners to advance the quality and technical rigor in energy modeling,” Krishnan Gowri, vice chair of the conference steering committee, said. “Attendees will gain knowledge of new modeling tools and techniques from leading industry experts for high performance and net zero building design.” There are 16 presentation sessions scheduled. One session, Simulation Techniques II, supports the theme of the conference with presentations such as Residential Design Decisions: A Case Study Using PPD/Pmv Modelling to Drive Architectural and HVAC Choices for Enabling Thermal Comfort in a Cold Climate Home. Also, application of ANSI/ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, will be demonstrated for design practitioners who may be unfamiliar with it.

An overview of the ASHRAE Standard 209P is also scheduled. ASHRAE Standard 209P, *Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings*, defines minimum requirements for providing energy design assistance using building energy simulation and analysis. The proposed standard is open for public comment until May 9, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

Continued on next page

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For Release:

May 3, 2016

Contact: Jodi Scott

Public Relations

678-539-1140

jscott@ashrae.org

ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference Spotlights Practical Application

Continued from previous page

Other sessions that highlight codes and standards include Calibration, IEQ and Ventilation Modeling.

Also announced 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 70 participants will create their model using the following tools:

- Autodesk
- Carrier HAP
- CYPE
- DesignBuilder
- EnergyPlus
- eQuest
- IES
- Sefaira
- TRACE

The teams, which will present their results during the conference, will be evaluated on energy, teamwork, creativity, workflow and practicality.

To participate on a team as a “fan” or for more information on the LowDown Showdown, visit www.ashrae.org/simbuild2016#lowdown.

The conference will cover two-and-a-half days and will be preceded by two days of training seminars and short courses. To register for the conference, visit www.ashrae.org/simbuild2016.

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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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For Release:
 May 4, 2016
 Contact: Jodi Scott
 Public Relations
 678-539-1140
jscott@ashrae.org

Proposed ASHRAE Data Center Standard Open for Fourth Public Comment Period

ATLANTA – Industry input is being sought for the fourth public review of a proposed data center standard from ASHRAE. ASHRAE Standard 90.4P, *Energy Standard for Data Centers*, would establish the minimum energy efficiency requirements of data centers for design and construction and for creation of a plan for operation and maintenance, and for utilization of on-site or off-site renewable energy resources.

The standard is open for public comment from April 29 until May 29, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

“This standard impacts a specialized discipline so feedback from that industry is critical,” Ron Jarnagin, 90.4P committee chair, said. “The data center industry responded to the three public reviews thus far with more than 1,000 comments, which have guided us as we move toward publication. We are hopeful we will approve a final standard at the ASHRAE 2016 Annual Conference taking place this summer.”

Changes made as a result to the draft standard are:

- Revised the definition of incoming electrical service point
- Deleted exception 2 to 4.2.1.2, Additions to Existing Data Centers
- Corrected equations in 6.2.1.1 and 6.2.1.2. to correctly express peak power in all cases
- Deleted 3B Coast from Tables 6.2.1.1 and 6.2.1.2. to ensure alignment with ANSI/ASHRAE *Standard 169-2013, Climatic Data for Building Design Standards*
- Added section that describes the process for establishing Verification of Equipment Efficiencies to Section 6 and 8.
- Corrected Equations in Compliance Section 11.2.1.
- Revised Section 11.3, to indicate how compliance can be demonstrated through modeling of shared systems between ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, and 90.4 spaces
- Updated references in Section 12 for Standard 90.1 and ASHRAE’s “Thermal Guidelines for Data Processing Environments.”

Those interested in learning more about the actions related to the standard can subscribe to a list serve at www.ashrae.org/listserve.

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For Release:
 May 9, 2016
 Contact: Jodi Scott
 Public Relations
 678-539-1140
jscott@ashrae.org

Rail Passenger Vehicle Standard Published by ASHRAE

ATLANTA – A consistent approach to the design and application of HVAC for rail passenger vehicles is provided in a newly published guideline from ASHRAE.

“Guideline 23-2016, *Guideline for the Design and Application of HVAC Equipment for Rail Passenger Vehicles*, was developed in response to a need expressed within the rail passenger vehicle industry to adopt a more consistent approach to the design and application of HVAC systems that can be used as a basis for future designs,” Ken Hesser, chair of the committee that wrote the guideline, said. “Current inconsistent design approaches and sometimes widely varying requirements for similar applications have resulted in minimal standardization, excessive development efforts for similar equipment, and the resulting inefficiency and disproportionately high cost of equipment.”

The guideline applies to passenger carrying rail vehicles. These include three broad categories of rail vehicles or service: *urban* includes subways, street cars and light rail; *commuter* (sometimes referred to as regional or suburban) includes primarily electric multiple units (electrically powered from overhead catenary or third rail) and locomotive hauled trains that transport passengers from the suburbs to metro areas; and *intercity* trains that are typically the locomotive hauled long distance trains.

Estimates on the number of rail passenger vehicles worldwide are in excess of 100,000. Hesser noted that air conditioning design for rail vehicles present unique challenges over designing for buildings. Challenges unique to rail vehicles vs. buildings include:

- Designing equipment to be significantly more mechanically robust to withstand the dynamic shock and vibration environment.
- Maintaining comfort with rapidly changing passenger loads and quickly changing environmental conditions (tunnels, stations etc.) .
- Maintaining reliable operation in dirty environments.
- Ability to continue operation when exposed to extreme transient thermal conditions in tunnels and when positioned adjacent to other heat generating equipment.
- High tolerance for rapid supply voltage fluctuation and frequent power interruptions/restarts.
- Tight packaging of high capacity equipment in limited spaces.
- Sizing capacity to accommodate rapid cool down/heat up when vehicles are parked without power for extended periods.

The cost of Guideline 23-2016, *Guideline for the Design and Application of HVAC Equipment for Rail Passenger Vehicles*, is \$39, ASHRAE members (\$46, non-members). To order, visit www.ashrae.org/bookstore or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or fax 678-539-2129.

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For Release:
 May 10, 2016
 Contact: Jodi Scott
 Public Relations
 678-539-1140
jscott@ashrae.org

Importance of Resiliency in Buildings Codes/Standards Stressed at White House Event

ATLANTA – Helping buildings and their systems withstand and recover from natural disasters requires a lot of technical knowledge. Fortunately, ASHRAE has dozens of resources available to help designers make buildings more resilient. The Society took part in today’s White House Conference on Resilient Building Codes.

“The built environment industry strives to design, construct and operate buildings to withstand both natural disasters and man-made hazards,” ASHRAE President David Underwood said. “We must use the knowledge gleaned from disasters like the recent earthquake in Kumamoto, Japan, Superstorm Sandy, flooding in India and others, as well as predictions of the effects of climate change, to our advantage to save lives and infrastructure in the future. ASHRAE is pleased to be part of this effort with allied organizations and make these commitments to protect the public and building stock.”

The White House hosted the event to highlight the critical role of building codes in furthering community resilience and the importance of incorporating resilience and the future impacts of climate change in the codes and standards development process. As part of the conference, the Administration highlighted federal and private sector efforts aimed at advancing the principles of resilience in building codes and standards and building design.

ASHRAE Director-at-Large Mick Schwedler took part in the conference, serving on a panel focused on codes and standards. Participants discussed the work being done by the codes and standards community as well as how that community can better support state and local officials who are faced with the challenges of cost and risk perceptions. Others on the panel represented the National Institute of Building Sciences, the International Code Council, the National Fire Protection Association and the American Society of Civil Engineers.

As part of the effort, ASHRAE has committed to:

- utilizing member research funding to support research related to resilience in buildings and building systems
- developing, maintaining or revising standards to reduce building loads and their subsequent impact on utilities
- working with numerous global partners to encourage adoption of these changes as soon as possible into codes
- providing instructional and application tools to implement these substantial improvements
- educating the affected stakeholders

ASHRAE has compiled a webpage of resources on resiliency, which can be found at www.ashrae.org/resiliency.

In addition, ASHRAE, along with other leaders of America’s design and construction industry, released a report on progress made on the resilience front since the Resilience Building Coalition announced the Building Industry Statement on Resilience two years ago.

The Resilience Building Coalition also released a set of guiding principles to help the building industry adopt resilient design and policies. These include developing and advocating for codes and policies that advance resilience; developing “whole-systems resilient design” approaches for the built environment; and providing guidance, beyond the baseline life-safety codes, that recognizes the importance of fortifying property for individual and community resilience. The report can be viewed at www.ashrae.org/resiliency.

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For Release:
May 19, 2016
Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

ASHRAE Certification, Course Recognized in Federal Building Personnel Professional Development

ATLANTA – Personnel who work at U.S. federal buildings can now include their ASHRAE certification and an ASHRAE course in their professional development plan.

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 have been reviewed by the Facility Management Institute of the U.S. General Services Administration and are now considered Federal Buildings Personnel Training Act (FBPTA)-Aligned. The process included reviewing learning objectives, skills taught and material covered.

"Recognition of these ASHRAE qualifications as 'FBPTA aligned' not only is confirmation that ASHRAE certifications and courses are relevant and meet industry need, but it also will be a boon to federal employees charting their professional development," Cameron Labunski, P.E., CPMP, HBDP, HFDP, ASHRAE Professional Development Committee chair and incoming Certification Committee vice chair, said.

These qualifications 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. Federal buildings personnel can meet FBPTA requirements in competency area performances ranging from 13 to 98 with one of these ASHRAE qualifications.

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News

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For Release:

June 1, 2016

Contact: Jodi Scott

Public Relations

678-539-1140

jscott@ashrae.org

Papers Sought for ASHRAE Conference on Energy, Indoor Environment in Hot Climates

ATLANTA – Papers are being sought for a conference focused on energy and indoor air quality in humid and arid hot climates. Organized by ASHRAE, the ASHRAE Qatar Oryx Chapter and Qatar University, the Second International Conference on Energy and Indoor Environment for Hot Climates takes place Feb. 26-27, 2017, in Doha, Qatar.

The Gulf region in general and Qatar in particular is experiencing an escalation in high energy demands primarily because of mega-construction projects. This demand can be lessened by energy-efficient HVAC&R system designs presented at this Conference, according to Walid Chakroun, conference chair.

“The region faces the challenge to produce high-efficiency system designs with sustainable alternatives to R-22 technologies,” Chakroun said. “This Conference addresses that challenge and sets the path for a better understanding the integration of energy efficiency and indoor air quality in high ambient temperature regions. The Conference has the objectives to lower energy use and to address the impact of low-energy design on occupant health in different building sectors, for both developed and developing economies.”

Abstracts (400 words in length) are due Aug. 1, 2016. If accepted, papers are due Oct. 10, 2016. Authors of accepted papers are responsible for travel and registration. Hotel accommodations are free for authors presenting papers. Submittal information can be found at www.ashrae.org/HotClimates.

The Conference provides a forum for discussion of the latest research and development in the field of indoor environmental quality in high ambient temperature climates.

Topics include but are not limited to:

- Indoor Air Quality Systems
- Lessons Learned from IAQ Systems in Developing Countries
- Air-Conditioning and Refrigerating Systems
- Sustainability in Buildings
- Energy and Sustainable Development
- Healthy Indoor Environment Protocols
- Renewable Energy Technologies
- Indoor Environmental Pollution Sources
- Air Cleaner Performance
- Advances in Filter Materials
- Low Emitting Materials for Better IAQ
- Standards, Codes and Regulations

In addition, panel discussions are included with experts and decision makers where recommendations and ideas for research can be generated for better design and preserving healthy environments. Keynote speakers will focus on different aspects of indoor environmental quality and energy efficiency.

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FOR IMMEDIATE RELEASE

June 2, 2016

Contact: Francis Dietz, AHRI Vice President, Public Affairs
Direct: 703.600.0355

Contact: Jodi Scott, ASHRAE Communications Manager
Direct: 678.539.1140

ASHRAE, AHRI, DOE Partner to Fund Flammable Refrigerant Research

\$5.2 million program will help accelerate updating of model building codes

ATLANTA – ASHRAE, the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and the U.S. Department of Energy (DOE) are collaborating to fund vital research that will establish a more robust fact base about the properties and the use of flammable refrigerants. This \$5.2 million research program is part of an ongoing global effort to phase down the use of high-global warming potential (GWP) refrigerants and identify appropriate climate-friendly alternatives. Of the total, DOE is contributing \$3 million, ASHRAE \$1.2 million, and AHRI \$1 million.

In anticipation of a global plan to phase down high-GWP refrigerants, the industry has spent the past five years researching potential alternatives. Through that effort, several promising refrigerants were identified, many of which are low toxicity but are classified as mildly flammable or flammable. This new research program will provide the technical knowledge needed to facilitate and accelerate the safe use of these refrigerants.

The results of this research will immediately be transmitted to the committees responsible for ANSI/ASHRAE Standard 15-2013, *Safety Standard for Refrigeration Systems*, and ANSI/ASHRAE Standard 34-2013, *Designation and Safety Classification of Refrigerants*, with a goal of using the results to update the standards as soon as possible, subject to full compliance with the ANSI consensus process.

The International Code Council (ICC) has stated that these revised ASHRAE standards will be eligible to be fast-tracked into the international codes, in accordance with ICC procedures.

“ASHRAE has a strong history and commitment to refrigerants, having written our first standard on the topic in 1919,” said David Underwood, ASHRAE president. “We have continued our work in this area since that time, publishing the industry’s leading standards on refrigerants (Standards 15 and 34) as well as conducting hundreds of research projects on the topic. As such, ASHRAE is fully committed to this project. In fact, the funds we are using for our share represent the largest transfer from our Research Reserve Fund in our 122 year history.”

“AHRI is extremely grateful to ASHRAE, DOE, and the International Code Council for their commitment to accelerating the introduction of suitable alternatives to high-GWP refrigerants,” said Stephen Yurek, AHRI President & CEO. Our member companies, some of which produce refrigerants and others of which manufacture the highest quality air conditioning and commercial refrigeration equipment in the world, can use the results of this vital research to continue in those missions, but in an even more environmentally friendly way,” he said.

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1791 Tullie Cir. NE | Atlanta, Ga. 30329-2305 | 404-636-8400 | www.ashrae.org

For Release:
June 3, 2016
Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

Smart Grid Standard Published: Key Piece Supporting Modernization of Global Grid

ATLANTA – The smart grid effort underway around the globe will transform the fundamental structure of the grid by combining an intelligence infrastructure with the grid, which will enable two-way flow of both information and electricity.

A key piece needed to support that modernization and transformation is a newly published standard from ASHRAE and the National Electrical Manufacturers Association (NEMA).

ANSI/ASHRAE/NEMA Standard 201-2016, *Facility Smart Grid Information Model*, provides a common basis for electrical energy consumers to describe, manage and communicate about electrical energy consumptions and forecasts. The standard is packaged with a User's Manual.

The standard is part of ASHRAE's supporting efforts for the Smart Grid Interoperability Panel (SGIP), a private-public partnership initiated by the National Institute of Standards and Technology to speed development of interoperability and cyber security standards for a nationwide smart electric power grid.

A "facility" in the context of this standard can be a single family house, a commercial or institutional building, a manufacturing or industrial building or multiple buildings such as a college campus. There is a range of control technology used in these facilities and standards to support them. The Facility Smart Grid Information Model (FSGIM) provides a common framework to guide the development of these control technologies so that they can meet the control needs of a smart grid environment.

"In a smart grid world, facilities of all kinds will become partners in managing the electricity grid, sometimes providing local generation and moderating loads to balance variations in renewable energy supply or meet other grid constraints," Steve Bushby, chair of the Standard 201P committee, said. "The FSGIM provides a common path forward for residential, commercial and industrial control technologies to implement the features needed to participate in the smart grid."

"The technologies that are enabling high performance buildings are evolving at a fever pitch and the need for a common model for communication of energy data is essential," Robert Hick, vice president engineering for Leviton Manufacturing and co-vice chair of the Standard 201P committee representing NEMA, said. "Adherence to this standard will insure interoperability of energy systems within all types of buildings and compatibility with the smart grid for current and future technologies. The contributors to this publication come from a broad collection of stakeholders in all the related industries and their dedicated efforts to developing and publishing this standard could not be more timely."

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June 3, 2016
Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

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“SGIP’s Priority Action Plan (PAP) process is designed to identify standard gaps or needs and to facilitate the development, discussion, and recommendations for Smart Grid-related standards to advance grid modernization,” said Aaron Smallwood, director of technology operations for SGIP. “We’re pleased that the *Facility Smart Grid Information Model PAP17* resulted in the development and approval of ASHRAE/NEMA Standard 201, and that we now have the opportunity to review Standard 201 for inclusion in SGIP’s Catalog of Standards.”

The standard provides a way to model real building systems as a combination of four abstract components: loads, generators, meters and energy managers.

The kinds of functionality that will be enabled by the model include:

- On-site generation management
- Demand response
- Electrical storage management
- Peak demand management
- Forward power usage estimation
- Load shedding capability estimation
- End load monitoring (sub-metering)
- Power quality of service monitoring
- Use of historical energy consumption data
- Direct load control

The standard will be supported by a User’s Manual that provides information about how to interpret the features of the model. It also defines a set of anticipated use cases for facility interaction with a smart grid and provides guidance on how to apply the standard to those use cases, according to Bushby. Expected publication of the User’s Manual is early June 2016.

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A ballot has been initiated to approve Standard 201 as an International Organization for Standardization (ISO) standard, via ISO/Technical Committee 205 Building Environmental Design. If approved, the ballot, which is expected to take several months to complete, would move the standard to publication as an ISO standard. Standard 201 builds on and makes use of several other related standards applicable to the smart grid including:

- IEEE 61850 (generators)
- OASIS WS-calendar
- OASIS Energy Market Information Exchange
- NAESB REQ Business Practices and Information Models to Support Priority Action Plan 10—Standardized Energy Usage Information (Green Button)
- OpenADR
- Weather Exchange Model (WXXM)

The cost of ANSI/ASHRAE/NEMA Standard 201-2016, *Facility Smart Grid Information Model*, packaged with the User's Manual, is \$110, members (\$129, non-members). The User's Manual for Standard 201 will be available soon. Purchasers of the standard will automatically receive a complimentary PDF of the User's Manual upon its release.

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

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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SGIP is an industry consortium representing a cross-section of the energy ecosystem focusing on accelerating grid modernization and the energy Internet of Things through policy, education, and promotion of interoperability and standards to empower customers and enable a sustainable energy future. Our members are utilities, vendors, investment institutions, industry associations, regulators, government entities, national labs, services providers, and universities. A nonprofit organization, we drive change through a consensus process. Visit www.sgip.org. Follow SGIP on [LinkedIn](#) and [Twitter](#).