



VOLUME 11, ISSUE 3

OCTOBER, 2016

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October ASHRAE Meeting

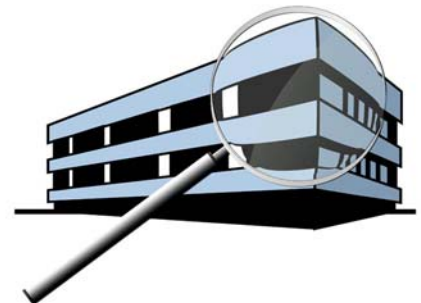
Topic: Highlights of the New Energy Code

Presenter: Mike DeWein, Leidos Engineering

When: Monday October 17th, 2016 at 12pm

Where: City Grill
384 East Ave, Rochester

Cost: \$25.00



Please RSVP by noon Thursday, October 13th to Tim Duprey
tim.duprey@pres-services.com

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.



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Buyer's Guide

Marianne Schumacher (585) 217-3942
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SAVE THE DATE

ASHRAE 2016-2017 Meeting Schedule			
Date	Event	Theme	Location
Monday, 9/19/2016	State of the Construction Industry in Rochester with the Economic Development Grants <i>(presented by Aaron Hilger, ROBEX President)</i>	Membership Night	Burgundy Basin @ 5:00 PM
Monday, 10/17/2016	Highlights of the New Energy Code <i>(presented by Mike DeWein, Leidos Strategic Program Director)</i>	<i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 11/14/2016	Air Filtration <i>(presented by Flanders)</i>	History Review <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 12/12/2016	Impact of new EPA and DOE Regulations on Refrigeration and Cooling <i>(presented by Mike Nohle, MEIER Supply, Refrigeration Division Manager)</i>	Resource Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 1/9/2017	Cleanroom Design Considerations from a Certifiers Perspective <i>(presented by Ralph Craft, R. Kraft, Inc)</i>	<i>(PDH Pending)</i>	City Grill @ 12:00 PM
Friday, 2/3/2017	ASHRAE Valentines Dinner Dance	---	TBD
Monday, 2/13/2017	Data center and Critical space cooling technology advancements <i>(presented by Mike DeGaetano, RL Kistler Inc)</i>	Membership Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 3/13/2017	ASHRAE Building Energy Quotient (bEQ) <i>(presented by Hoy Bohanon, PE, President, Hoy Bohanon Engineering, PLLC)</i>	Resource Promotion <i>(PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 4/10/2017	Refrigeration Tour	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 October Message

October Newsletter 2016
President's Message

We kicked off the 2016-2017 ASHRAE program year on Monday, September 19th with our annual Clambake at the Burgundy Basin Inn. Thank you to everyone that attended. Aaron Hilger, President of ROBEX presented on the State of the Construction Industry in Rochester with the Economic Development Grants. It was a great presentation to learn more about how Rochester continues to grow.

On August 18-20, 2016, Chris Walter (Delegate) and I (Alternate) attended the ASHRAE Centralized Regional Conference (CRC) for Region I hosted by the Rochester Chapter. The conference was very informative for us to have another successful year. Society President, Tim Wentz was in attendance and delivered his Presidential theme: *Adapt Today To Shape Tomorrow*. His message focused on three directives. First is to adapt ASHRAE resources to help expand member knowledge and develop the visionaries of tomorrow. Second is to adapt ASHRAE investments to energize chapters and engage members. Third is to adapt ASHRAE technology to produce an immediate, direct benefit to members and society. I personally had the pleasure to spend some time talking to Mr. Wentz and feel that we as a chapter can support his Presidential message.



Jeff Close, 2016-2017 President

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

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

October Meeting Info

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

October ASHRAE Meeting << PDH PENDING>>

Date: Monday, October 17, 2016

Location: City Grill ****OUR NEW LOCATION****

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

Cost: \$25.00

Speaker: Mike DeWein (Leidos Strategic Program Director)

Topic: Highlights of the new energy code

Note: (1) PDH {Pending}

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

<< Pay for Meeting Registration online via PayPal >>

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

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

Please RSVP no later than noon Friday October 14th to Tim Duprey

Phone: 585.330.6430 or e-Mail ... ASHRAERochester@gmail.com, tim.duprey@pres-services.com or tduprey@rochester.rr.com.

Highlights from September ASHRAE Meeting



(Left) Members gather before the start of the clam bake. (Right) Jeff Close presents to Matt Devlin with Research Promotion - Exceeding Goal Certificate




Builders Exchange of Rochester President Aaron Hilger presents on the construction outlook for the Rochester area.



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.

Job ID / Location	2016-25804: US-NY-Rochester (1 position) 2016-25927: US-NY-Endicott (1 position)	
Minimum Experience (Years)	7	
Discipline	Buildings Engineering	

Your Opportunity:

Our Buildings Engineering group specializes in the design and development processes unique to buildings. Working closely with our clients, our dedicated professionals help to establish and understand the needs of a range of building projects. This is where great ideas and rewarding careers are built. For both public and private sector clients, we provide unique plan checking capabilities as well as energy engineering and performance engineering services, covering each of the major engineering disciplines-structural, mechanical, and electrical. In addition, we bring together innovative and functional design solutions for companies involved in the discovery, research and development, and commercial scale manufacturing of pharmaceuticals, biotechnology, and medical device products. Focused on providing cost-effective solutions to engineering challenges, we are involved in a diverse range of projects from the initial planning stages to design, construction, and commissioning. Our structure cultivates career growth and provides opportunities as unique as you are.

Your Duties:

- Duties will include but are not limited to preparation of project proposals and resulting contracts, project implementation plans, resource planning, quality control and design review, project team review and coordination, client, and financial management.
- May assist as mechanical engineering lead overseeing the engineering & design of plumbing / fire protection / HVAC and other mechanical systems for new and renovated buildings.
- Mechanical engineering - actual designs including the completion of code reviews, preparation of the basis of design, system calculations, mark-up of drawings, specification preparation, field investigations, construction estimating and site inspections and other such design as required to execute the mechanical construction for new or renovated buildings.
- May perform project manager duties as needed.
- Some travel to site locations or other Stantec offices may be required.

Your Capabilities and Credentials:

The successful candidate will possess:

- Requires a B.Sc. Mechanical Engineer
- NYS PE desired, registration in other states a plus
- 7+ years' experience required
- Must have strong Mechanical Engineering skills in Plumbing, Fire Protection, HVAC, and related mechanical systems
- Prior management experience is a plus
- Prior consulting engineering experience is required
- Experience using Autocad, Revit, Trane Trace or Equest is a plus
- Excellent verbal and written communication skills
- Excellent interpersonal skills with team members and clients

We put people first, and it shows. We're proud to be one of New York's Best Places to Work, as named by The Business Council of New York and NYS-SHRM.

Please apply online directly at:

- (Rochester) <https://jobs-stantec.icims.com/jobs/25804/senior-mechanical-engineer---buildings/job>
- (Endicott) <https://jobs-stantec.icims.com/jobs/25927/senior-mechanical-engineer---buildings/job>

Presidential Award Of Excellence



Download



Achievements



Report

Chapter: ▼

Fiscal Year: ▼

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 1070
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 225
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 50
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 235
▶ 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: 900

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

Research Promotion



Research Promotion Report

We invite everyone to join us in recognizing last years Donors at the December chapter meeting which will also serve as our Donor Recognition meeting. Please join me in saying “thanks” to all of our supporters.

We would also like to thank Mark Snyder from Masive Testing & Balance who won the 50/50 drawing at the Clam Bake and donated his winnings back to ASHRAE Research.

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

www.ashrae.org/contribute

Young Engineers in ASHRAE

YEA Leadership Weekend

The Rochester Chapter is sponsoring 2 of our young engineers to attend the YEA Leadership Weekend in Charlotte NC November 4-6. This is an excellent opportunity to interact with other young engineers from throughout the country, and to develop skills to further your career. All registration and travel expenses will be paid! Contact Matt Kremers at mkremers@mcsmms.com.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

September 16, 2016 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564

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	
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	
Newsletter Editor	Scott Edwards	X
Resource Promotion Chair (RP)	Matt Devlin	X
Awards & Recognition Chair	Al Rodgers	
Chapter Technology Transfer Chair (CTTC)	Jeff Wiedrick	
Education	Bill Murray	
Publicity	Mark Kukla	X
YEA Chair (Young Engineers in ASHRAE)	Matt Kremers	X

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

September 16, 2016 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564

Picnic/Golf Chair & CRC 2016 Committee Chair	Jim Browe	
Buyers Guide	Marianne Schumacher	
Valentine's Dinner Dance	Jody McGarry	
Grassroots Government Advocacy Chair	Tom Burke	X
Refrigeration Co-Chair	Mike Nohle	

AGENDA

1. Call to Order Jeff Close
2. Roll Call Tom Streber
3. Review and Approval of Previous Meeting Minutes
 - Approved
4. Treasurer Paul Kenna
 - CFC expenses to be reviewed.
 - Current Statement Balances
 - 2016-2017 P&L
5. President Elect/Program Bill Clark
 - Reviewed program schedule
 - i. (4) open meetings.
 - Gift & Thank you cards
 - Evaluation forms
6. Attendance Tim Duprey
 - Currently 118 to attend clam bake. 10 shy of last year.
 - Tracking members vs. non-members at monthly meetings.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

September 16, 2016 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564

7. CTTC Report

Jeff Wiedrick

- Project submission by April 1, 2017

8. Membership Report

Mike Benedict

- Centralized Training at CRC and Atlanta
- 253 Current members
- Student list to Rob Hudson to see if they qualify for Roch Chapter.
- Looking into upgrading membership status from Assoc. to Member.
- Looking into Al Rodgers & Pete Opelt becoming a Lifetime Member.
- (3) Binders provided by ASHRAE to be distributed to companies with low ASHRAE membership in an effort to recruit new members.

9. Student Activities Report

Rob Hudson

- Contacted Steve Sill (Syracuse chapter) for ideas.
- Need to reach out to MCC (Kevin French and Bill Horton) and RIT.
- \$5,000 grant from ASHRAE to support a Sr. project.

10. Education Report

Bill Murray

- P.I.E. status has been updated for Bill Murray.
- Scholarship - Jeff Close to reach out to other Chapters as to how to distribute over the \$30,000+ in Rochester's scholarship fund to students.

11. YEA Report

Matt Kremers

- 69 of 229 members in Roch. Chapter are YEA members. 11 are students.
- Stronger focus on increasing Leadership weekend attendance.
- Future tour to UL Lab to be coordinated.
- Tech session dates and topics TBD.

12. Awards & Recognition Report

Al Rodgers

- Jeff to work with Al on available awards.
- Realto P Cherne Award to be presented at a future meeting.
 - i. Need award winners for 2012 and 2013.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

September 16, 2016 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564

13. Resource Promotion Report Matt Devlin
- Resource Promotion scheduled for December meeting.
 - Considering increase of contributions to Endowment Fund to increase returns.
 - Skeet shoot to be scheduled. Possibly April?
 - Current vs. Goal
 - Full Circle Contributions
14. Refrigeration Report Mike Nohle/Sam Scorsone
- First workshop in November.
 - Reaching out to RSES for possible new members.
 - Tech session to focus on fundamentals before December meeting at 11am and sponsored by YEA. Tim to coordinate with City Grill.
15. Grassroots Government Advocacy Report Tom Burke/George Herman
- Planned activity for increased POE points
16. Newsletter Report Scott Edwards
- More Regional contacts added to distribution list.
 - i. Need list of alias email addresses.
 - Committee submissions
 - Newsletter deadline reminder to be sent out on Monday.
17. Buyers Guide Branden Farnsworth-Weinblatt
- Transition from Marianne to Branden by 9/20.
18. Historian Report Jake Hall
- Planned activity.
 - Working on digitizing the archives.
19. Publicity Report Mark Kukla
- Email blast that highlights monthly meetings are now downtown.
 - Please send speaker's email so Mark can email a "Thank you".
20. Website Report Steve Dear/Kevin Wind
- Coordinate updates with Kevin.

Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

September 16, 2016 @ 7:30 AM

Day Automation, 7931 Rae Blvd, Victor, NY 14564

21. Nominating Report

Chris Walter

- Need to select list of candidates by November meeting.

22. Valentines Dinner Dance Report

Jody McGarry

- Schedule & Venue

23. Golf/Picnic Report

Jim Browe

24. Presidential Award of Excellence (PAOE)

- Have not met par for points in several years. Currently have 2,865 with goal of 10,000.
- Spreadsheet to be distributed for more opportunities.

25. New Business:

- Women in ASHRAE - Jaimee Wilson
 - i. CRC Secretary of Record.
 - ii. Would like to begin a "Women in ASHRAE Initiative".
- Student Branch (i.e. MCC, RIT, FLCC or UofR).
- MBO's.

26. Old Business:

- 2015-16 Audit and Audit Committee to contact accountant.
- Lynn Bellenger Hall of Fame Award Nomination, not approved. New nomination to be submitted by December 1st.
- Centralized Regional Conference (CRC).

27. Set next BOG Meeting date / time / place.

- Friday, October 14 @ 7:30 AM, Day Automation Office.

28. Adjourn - 9:11am



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.

Region I Officers



REGION I COMMITTEE CHAIR CONTACT INFORMATION

Position	First	Last	Company	Address Line	City	State	Post Code	Phone	Email
Region Director and Regional Chair	William	Walter	Carrier Corporation	6304 Thompson Rd	Syracuse	NY	13221	(315)432-6267	r01drc@ashrae.net
Region Assistant Regional Chair	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	r01arc@ashrae.net
Region Members Council Rep	Joseph	Furman	Automated Logic	16 Country Way	Wallingford	CT	06492-5356	(203)678-2208	r01RMCR@ashrae.net
Region Treasurer	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	r01tr@ashrae.net
Region Grassroots Government Advocacy	Richard	Vehlow	NYS OGS Design	10 Catherine Pl	Latham	NY	12110-5204	(518)474-2471	r01GGAC@ashrae.net
Region Chapter Technology Transfer	Christopher	Phelan	Thermco	228 Scales Ave	Clifton	NJ	07012-1126	(973)777-6700	r01rvcttc@ashrae.net
Region Membership Promotion	Lee	Feigenbaum						(347)533-0161	r01rvcm@ashrae.net
Region Research Promotion	Andrew	Manos	Stony Brook University	17 Horton St	West Islip	NY	11795-1039	(516)413-0214	r01rvcrp@ashrae.net
Region Student Activities	Steven	Sill	New York State Office of People with Developmental Disabilities	2930 State Route 104A	Sterling	NY	13156-4253	(718)494-5133	r01rvcsa@ashrae.net
Region Regional Historian	Stanley	Westhoff	Unilux Advanced Manufacturing LLC	18 Santee Dr	Gansevoort	NY	12831-1322	(518)587-1949	r01hist@ashrae.net
Region YEA	Chonghui	Liu				NY		(315)956-6533	r01yea@ashrae.net
Region Nominating Committee Member	Russell	Stuber	U & S Services Inc	95 Stark St	Tonawanda	NY	14150-1210	(716)693-4490	r01nom@ashrae.net
Region Nominating Committee Alternate	Darcy	Carbone	Stebbins-Duffy, Inc.	6 Damon Rd	Medford	MA	02155-2903	(617)957-2567	r01noma@ashrae.net
Region CRC General Chair	Jim	Browe						(585)697-0836	R01CRCChair@ashrae.net
Region Representative	Spencer	Morasch	First Energy Corporation					(201)825-7321	R01RR@ashrae.net
Region Electronic Communications	Stacie	Suh	Stebbins-Duffy, Inc.	10 Technology Drive	Peabody	MA	01960	(781)258-1002	r01ECC@ashrae.net
Region Webmaster	Stacie	Suh	Stebbins-Duffy, Inc.	10 Technology Drive	Peabody	MA	01960	(781)258-1002	r01ECC@ashrae.net
Region Refrigeration	Charles	Bertusch	Bergmann Associates	224 Harrison Street	Syracuse	NY	13202	(315)415-5364	r01ref@ashrae.net
Regional Program RVC	Peter	Oppelt	RF Peck	889 Atlantic Ave	Rochester	NY	14609	(585)697-0836	R01prg@ashrae.net

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REGION I CHAPTER NEWSLETTER CONTACT INFORMATION

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129	TWIN TIERS	Andrew	Nice	Meier Supply Co.	275 Broome Corporate Pkwy	Conklin, NY 13748-1511	(607)797-7700	C129ne@ashrae.net

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REGION I CHAPTER WEBMASTER CONTACT INFORMATION

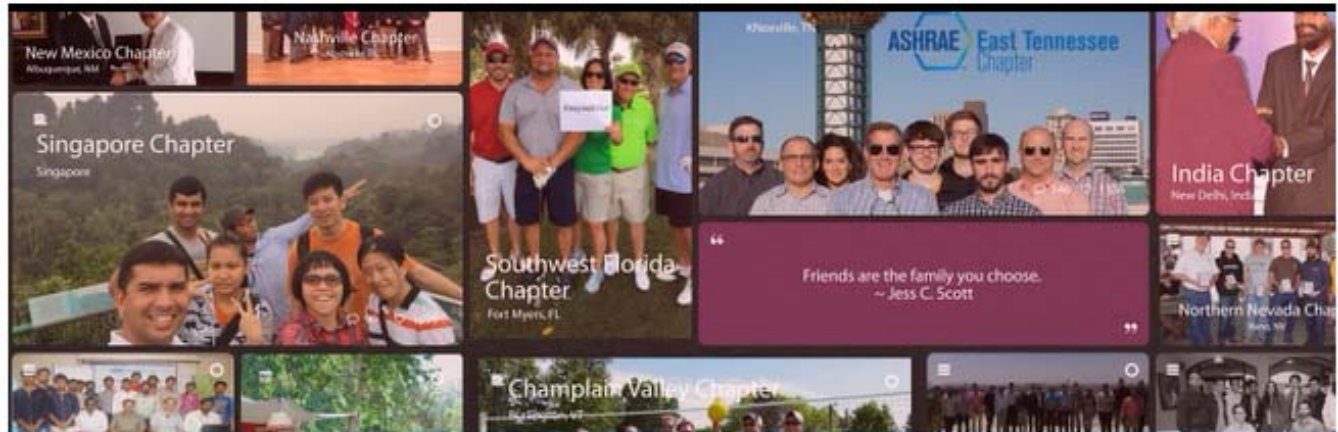
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Shaping Tomorrow's
Built Environment Today



Keynotes Newsletter

Daniel Gurley, Manager of Membership
Contact: DGurley@ashrae.org or 678-539-1127

Fall 2016 YEA Leadership Weekend

November 4-6, 2016 in Charlotte, North Carolina



Register for the Fall 2016 YEA Leadership on November 4-6, 2016 in Charlotte, NC. Attendance is capped at 30 attendees and registration is \$400. Encourage your YEA Chapter Chair or active Chapter YEA members to attend! Learn more and register at www.ashrae.org/YLW.

ASHRAE Student Scholarship and Grant Program

Scholarship Applications due Dec. 1

Grant Applications due Dec. 15

ASHRAE seeks to motivate students and prospective students worldwide to pursue engineering or technology careers in the HVAC&R field. The Society's [Scholarship Program](#) also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R.

The [ASHRAE Undergraduate Program Equipment Grants](#) provide funding to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of equipment. Grants are to be used to fund equipment and supplies for senior projects and 2-year technical school projects that focus on ASHRAE-related topics. Grants may cover projects lasting from one academic term up to one year.

Questions about scholarships ? Contact Lois at lbenedict@ashrae.org

Questions about grants? Contact Katie at kthomson@ashare.org

ASHRAE Learning Institute

2016 Fall Online Courses:

- \$284 non-member / \$219 member
(Two-part courses: \$484 non- member / \$359 member)
- Register by September 16th and Save!
- Earn 3-6 PDHs
- [See course listing](https://www.ashrae.org/education--certification/instructor-led-online-courses) <https://www.ashrae.org/education--certification/instructor-led-online-courses>

[Register Today](#) for ASHRAE's Fall Online Course Series.

HVAC Design Training:

- 2 courses, 5 days of instruction
- Level I - Essentials \$1,264 non-member / \$1,009 member
- Level II - Applications \$854 non-member / \$699 member
- [Register](https://www.ashrae.org/education--certification/hvac-design-and-operation-training) <https://www.ashrae.org/education--certification/hvac-design-and-operation-training>

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.

Utilize Reach Resources for Employer Visits



As your chapter's year starts to ramp up, please utilize the [ASHRAE Reach Employer Support Program](#) to help you make your employer site visits more impactful. Check out the program's [resource page](#) to find tips and tricks on how to make the most of these visits. And, don't forget, the PAOE points have been boosted in this category—it's an easy win-win.



Register Now for the 2017 ASHRAE Winter Conference and AHR Expo

The largest gathering of HVAC&R professionals in the world is taking place January 28 – February 1 in Las Vegas. [Join us at Caesars Palace and the Las Vegas Convention Center](#) to learn the latest in technology, earn PDH's, and help guide the industry by taking part in a standards or technical committee meeting.

ASHRAE President Tim Wentz Invites You to Vegas!



The largest gathering of HVAC&R professionals in the world is taking place January 28 – February 1 in Las Vegas. Join us at Caesars Palace and the Las Vegas Convention Center to learn the latest in technology, earn PDH's, and help guide the industry by taking part in a standards or technical committee meeting. [Watch the video:](https://www.youtube.com/watch?v=kW3595dTecg) <https://www.youtube.com/watch?v=kW3595dTecg>



2017 ASHRAE Winter Conference Technical Program Now Available

To View the Technical Program:

https://www.ashrae.org/membership--conferences/conferences/2017-ashrae-winter-conference?utm_campaign=Email%20%20Tech%20Planner&utm_source=vegas%20email%20%20tech%20planner%20button&utm_medium=link&utm_term=link#program

Start planning your itinerary for the 2017 ASHRAE Winter Conference & AHR Expo using the [Conference Track Personal Scheduler](#). Browse by track, presenter, program and more to create your custom itinerary before sending to your smartphone for easy access via the ASHRAE Events App.

8 Conference Tracks Include:

- Fundamentals and Applications
- HVAC&R Systems and Equipment
- Water-Energy Nexus
- Commercial and Industrial IAQ
- Mission Critical Design and Operation
- Effects of Climate Change on HVAC&R
- Energy Efficient Industrial Buildings
- Building Operation and Performance

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News

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For Release:
 Aug. 31, 2016
 Contact: Jodi Scott
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British Columbia, California, Florida and Regina Teams Top Winners in ASHRAE Student Design Competitions

ATLANTA – Students from eight countries put their engineering skills to the test to design and select systems for a government building in China, as well as for a competition requiring them to “think globally, act locally.” Both competitions are held by ASHRAE.

The 2016 Student Design Competition focused on a new 2-story municipal government building in Beijing, China. The Applied Engineering Challenge for 2015-2016 required students to plan, develop and enact solutions to sustainability issues in their local or regional areas. Forty-eight teams entered the competitions.

First place in the HVAC Design Calculations category is awarded to the University of British Columbia. Team members are Alexander Brosky, Samarth Joshi, Aubrey McNeill, Silvia Odaya, Cheng Yang and Ziran Yu, all from the Department of Mechanical Engineering, University of British Columbia. Faculty advisors are Nima Atabaki, Ph.D., P.Eng., and Steven Rogak, Ph.D., P.Eng., while the industry advisor is Ali Nazari, P.Eng., BEMP, principal, Integral Group.

The total system peak loads are 1,095 MBh for cooling and 398.9 MBh for heating. The team designed air cooled chillers with ice storage and natural gas boilers to serve three air handling units that feed variable air volume terminal boxes. Students selected the design based on life cycle cost analysis. The system allows a cooling plant to be downsized while taking advantage of cheaper off-peak energy costs

An independent computer room air conditioner maintains server room environmental requirements. Photovoltaic and solar thermal panels have been sized and selected as energy conservation measures.

First place in the System Selection category is awarded to California State Polytechnic University, Pomona. Team members are Miro Zaroukian, mechanical engineer, California Energy Designs Inc., La Canada, Calif.; Asped Khachatourian, mechanical designer, California Energy Designs Inc., La Canada, Calif.; Christian Garcia, Fontana, Calif.; Sevan Hovsepian, mechanical engineer, Integrated Engineering, Consulting Engineers Inc., Los Angeles, Calif.; and Tade Mirzakhanyan, mechanical engineer, RBM Conveyor Systems Inc., Pomona, Calif. Advisors are Henry Xue, Ph.D., and Richard L. Gilbert, P.E., California Energy Designs Inc.

After comparing several options, the team chose a hybrid variable refrigerant flow with outdoor heat recovery unit. They determined it is safe, reliable and efficient, and able to maintain the building at optimum conditions at all times.

In addition to the main building, a server room split system with a dedicated outdoor air system was designed to meet cooling loads. The system also generates potable hot water. An automatic ventilation system operates fans and mechanical louvers in the garage to ensure toxic gases are removed.

First place in the category of Integrated Sustainable Building Design is awarded to a team from the University of Central Florida. Team members are Logan G. Harrell, nuclear engineer, NAVSEA, Norfolk Naval Shipyard, Portsmouth, Va.; Gerald Hornik, applications engineer, Addison HVAC, Orlando, Fla.; Austin B. Christianson, Melbourne, Fla.; Travis Kalikapersaud, mechanical engineer, Thermotech Enterprises, Tampa, Fla.; and Jeremy Palavecino, associate engineer, NextEra Energy, Miami, Fla. The faculty advisor is Muthusamy V. Swami, Ph.D., and the technical advisor is Nathaniel B. Boyd, P.E., CPMP.

See next page for continuation

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See previous page

The owner provided a set of floor plans to which the building must be designed around, including compliance with ASHRAE/IES/USGBC/ICC Standard 189.1, *Standard for the Design of High Performance Green Buildings*, a budget of \$200 per square foot, a life cycle of 50 years and inclusion of all the rooms specified and designed to specify indoor environmental conditions and building schedule.

The team chose a water source variable refrigerant flow system with an optimized geothermal water loop. The system was chosen based on its part load performance with high performance variable speed compressors in the main condensing modules.

For the Applied Engineering Challenge, recipients are from the University of Regina, Saskatchewan – Bradley E.R. Lulik, mechanical engineering-in-training, MacPherson Engineering Inc., Regina, Saskatchewan; Eva Rennie, pursuing a diploma in business administration, University of Regina; and Brent Yeske, gradworks contactor, system integrity and standards, TransGas Limited, Regina, Saskatchewan. Their faculty advisor is Adisorn Aroonwilas, Ph.D.

The students conducted an energy audit and mechanical system redesign for Little Souls Daycare at Souls Harbour Rescue Mission. The facility had concerns about building ventilation and safety of occupants (ages 10 and under), specifically that there currently is no ventilation in the summer months, which results in a stale and humid environment. Souls Harbour wanted to improve the inefficiencies at the lowest possible cost while improving the health and safety of the building, making it habitable for the occupants.

The students provided a list of recommendations to be implemented over 10 years, including high efficiency HVAC systems for the daycare, administrative offices and the gym area, skylights and insulation, and windows.

The projects will be shared at the ASHRAE 2017 Winter Conference, Jan. 28-Feb. 1, Las Vegas, Nev. 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.

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.

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 Sept. 8, 2016
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A Winning Hand: ASHRAE 2017 Winter Conference, AHR Expo in Las Vegas

ATLANTA – When it comes to opportunities for professional development, networking and access to the latest technology, ASHRAE has stacked the deck in favor of its 2017 Winter Conference and AHR Expo taking place in Las Vegas. The Conference dates are Jan. 28-Feb. 1 at Caesars Palace with the Expo being held Jan. 30-Feb. 1 at the Las Vegas Convention Center. The two events are expected to draw thousands of industry professionals from around the world, drawing on the record breaking attendance from the 2011 Conference and Expo held in Las Vegas for the first time. To register for the Conference, which includes free access to the Expo, visit www.ashrae.org/lasvegas.

The Conference offers some 200 Professional Developed Hours recognized by most U.S. states, AIA LUs and LEED AP credits through ASHRAE Learning Institute course and Technical Program sessions.

ASHRAE's Technical Program raises the stakes in addressing the challenges faced today and in the future by industry professionals. Via eight tracks, the program attempts to bridge the gap between the design decisions made today that will impact the future. New tracks that address changes in technology include Water-Energy Nexus, Advances in Mission Critical Design and Operation, Climate Change and Its Effects on HVAC&R Design and Technologies, and Energy Efficiency Industrial Buildings and Life Safety. The full program will be available later this month.

Twenty Professional Development Seminars and Short courses are offered by the ASHRAE Learning Institute. New courses include Cogeneration from the Basics through Construction and Operation, Complying with Standard 90.1-2016, Complying with the Requirements of Standard 62.1-2016, New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs, Variable Refrigerant Flow System Design and Application, Complying with Standard 90.1-2016 Appendix G, and Design of Affordable and Efficient Ground Source Heat Pumps.

Additionally, ASHRAE is offering two administrations of its six certification program exams, including its new Building Commissioning Professional (BCxP) certification developed with the goal of achieving U.S. Department of Energy (DOE) recognition by summer 2017. The other certifications are the ANSI-accredited Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP) and High-Performance Building Design Professional (HBDP) as well as the Healthcare Facility Design Professional (HFDP), and Operations & Performance Management Professional (OPMP).

The keynote speaker at the opening Plenary Session is Adam Steltzner, team lead and chief engineer for NASA's Mars Rover, Curiosity. For 10 years, Steltzner led a team of engineers inventing, designing and testing the revolutionary "sky crane" landing system that successfully placed the rover on the Martian surface in 2012. Five times heavier than its predecessors, Curiosity required an entirely new landing system for the 7-minute phase when the one-ton rover—entering Martian atmosphere at 13,000 mph—must stop fully on the surface. To inspire attendees, Steltzner discusses the power of human curiosity and the importance of fostering a culture of collaborative innovation.

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 Sept. 13, 2016
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Data Center Standard Published by ASHRAE

ATLANTA – A newly published energy standard for data centers features a performance based approach that is more flexible and accommodating of innovative changes that rapidly occur in design, construction and operations in that industry.

ANSI/ASHRAE Standard 90.4-2016, *Energy Standard for Data Centers*, establishes the minimum energy efficiency requirements of data centers for design and construction, for creation of a plan for operation and maintenance and for utilization of on-site or off-site renewable energy resources.

“We worked very hard to craft this standard in a manner that does not stifle innovation in the data center industry while simultaneously offering criteria to help ensure energy savings,” Ron Jarnagin, chair of the 90.4 committee, said. “It is important to keep in mind that data centers are mission critical facilities where risk management is the primary concern.” Jarnagin noted that high plug loads and rapidly advancing IT technology make data center applications significantly different from their commercial building counterparts. Standard 90.4 specifically addresses the unique energy requirements of data centers.

Standard 90.4 is a performance-based design standard that offers the design components for mechanical load (MLC) and electrical loss (ELC). Calculations of the MLC and ELC are made and then compared to the maximum allowable values shown in the standard based on climate zones. Compliance with Standard 90.4 is achieved when the calculated values do not exceed the values contained in the standard. An alternative compliance path is provided that allows tradeoffs between the MLC and ELC.

“The committee initially pursued a Green Grid power use effectiveness-like (PUE) process for setting the criteria in the standard but the Green Grid’s PUE metric is actually based on measured energy use data rather than design criteria calculations,” Jarnagin said. “We realized that the design calculations contained in Standard 90.4 would not likely match up with the actual energy use data so this approach was amended. We feel that we’ve recommended the requirements for 90.4 based on a justifiable 80/20 rule where only the lower performing systems will be affected.”

The Standards Committee, which has oversight of all ASHRAE standards, will work together with the chairs of Standard 90.4 and ANSI/ASHRAE/IES Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, to remove data centers from Standard 90.1. Standard 90.4 already refers users to Standard 90.1 for requirements on lighting, service water heating and the building envelope.

Other requirements in Standard 90.4 include:

- A sample compliance checklist
- Diagrams to illustrate compliance
- Sample calculations

Jarnagin noted that industry input is vital as the standard moves forward. The standard now is under a continuous maintenance process that allows changes to the standard to be made on a continuous basis through the mechanism of addenda to the standard. This process will allow for frequent changes to the standard as needed to keep pace with the rapidly changing technologies in the industry, he said.

The cost of Standard 90.4-2016, *Energy Standard for Data Centers*, is \$89, ASHRAE members (\$105, 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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Sept. 14, 2016
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ASHRAE Congratulates U.S. House Members on Passage of Career and Technical Education Legislation

ATLANTA – Yesterday, the U.S. House of Representatives took a major step forward in overwhelmingly passing the bipartisan Strengthening Career and Technical Education for the 21st Century Act (H.R.5587), which would reauthorize the Carl D. Perkins Career and Technical Education Act through Fiscal Year 2022, and provide increased support for science, technology, engineering and mathematics (STEM) education.

“ASHRAE commends members of the U.S. House of Representatives for passing this bipartisan bill that would modernize career and technical education and provide renewed strength that will prepare students for in-demand careers,” said ASHRAE President Tim Wentz. “We strongly encourage the Senate to build on these efforts and take bold action to provide further support for STEM education. Such action would help meet the workforce pipeline need for an estimated 115,000 new HVAC&R technicians by 2022, which will be created through growth and retirements.”

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.

ASHRAE is a member of the HVACR Workforce Development Foundation, which is dedicated to leading an industry effort to develop and promote educational projects, programs, and partnerships to attract committed and skilled employees to a career in HVACR. More information on the Foundation can be found at www.careersinhvacr.org

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News

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 Sept. 28, 2016
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ASHRAE Scholarships Provide Financial Assistance for 33 Students

ATLANTA – Thirty-three students receiving scholarship funds from ASHRAE are joining more than 300 others who have received financial assistance from the Society over the years.

The students are accepting \$164,000 worth of financial assistance for the 2016-17 school year. Over the course of 28 years ASHRAE has awarded more than \$1.78 million to over 360 deserving undergraduate students.

“ASHRAE scholarships have a positive impact on the lives of students, often allowing them to focus more on their studies and work fewer hours at part-time jobs,” Chuck Curlin, chair of the Scholarship Trustees, said. “ASHRAE scholarships help defray some of the costs of a college education - which has gotten much more expensive in past years. The scholarships we provide not only help with the financial needs of students, but also creates a direct connection between the recipients and ASHRAE.” Curlin notes that ASHRAE receives thank you letters each year from scholarship recipients expressing their gratitude for the scholarships. Some of these can be viewed at www.ashrae.org/scholarships, along with complete information about the program.

The 2016-17 scholarship recipients are:

- **Willis H. Carrier Scholarships:** \$10,000 each for one year, Casey Zarger and Kristen Cole, architectural engineering, Pennsylvania State University. The scholarship was established by the Carrier Corp. in memory of its founder, who installed the world’s first scientifically designed air-conditioning system.
- **Reuben Trane Scholarships:** \$10,000 each to be awarded over two years, Danish Dhamani, mechanical engineering, Drexel University; Aldo Kusnardi, mechanical engineering, Minnesota State University; and Jacquelyn Sommers, architectural engineering, Kansas State University. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.

The following awards provide one-year \$5,000 scholarships:

- **Lynn G. Bellenger Engineering Scholarship:** Linda Komnang Liezu, mechanical engineering, City College of New York. The scholarship recognizes female undergraduate engineering students and is named in memory of the Society’s first female president.
- **Lynn G. Bellenger Engineering Technology Scholarship:** Kathleen Agustin, sustainable energy and building technology, Humber College. The scholarship recognizes female undergraduate engineering technology students.
- **Region IV Benny Bootle Scholarship:** Robert Cosby, mechanical engineering, Georgia Institute of Technology. The scholarship is named for a former Region IV chair and regional director on the ASHRAE Board of Directors.
- **James R. Bullock Jr. Scholarship:** Benjamin Bingham, mechanical engineering, North Carolina State University. It is named in honor of Bullock Jr., P.E., Life Member, a longtime ASHRAE member who serves as president of Environmental Air Systems Inc.
- **Frank M. Coda Scholarship:** Mariana Silva, civil engineering, University of Texas at Austin. The scholarship was created in memory of ASHRAE’s former executive vice president, who served from 1981-2004.
- **Duane Hanson Scholarship:** Dayna Hedges, architectural engineering, Pennsylvania State University. The scholarship was established by Gayner Engineers and is named for the company’s former president.
- **Gordon V.R. Holness Scholarship,** Caitlin Bubel, mechanical engineering, Drexel University. It is named in honor of ASHRAE Presidential Member Holness, P.E., Fellow ASHRAE, Life Member, who served as president in 2009-10.



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- **David C.J. Peters Scholarship:** Jacob Upton, mechanical engineering, California Polytechnic University San Luis Obispo. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.
- **Alwin B. Newton Scholarship:** Amber Zuehlke, architectural engineering, Lawrence Technological University. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- **General Scholarship:** Lauren Boyle, architectural engineering, Pennsylvania State University.
- **Legacy Scholarship:** Dallas Gardner, architectural engineering, Kansas State University.
- **Engineering Technology Scholarships:** Franciso Iniguez, HVAC engineering technology and energy management, and Justin Dean, HVAC&R technology, both from Ferris State University; and Seth Helliker, construction management, Pittsburg State University.
- **Freshman Engineering Scholarship:** Muhammad Abbasi, mechanical engineering, Minnesota State University.

The following awards provide one-year \$3,000 scholarships:

- **Henry Adams Scholarship:** Rachel Kendall, mechanical engineering, University of Manitoba. The scholarship was established by Henry Adams, Inc. in memory of its founder, a charter member and sixth president of ASHRAE'S predecessor society, ASHVE, established in 1899.
- **ASHRAE Central New York Chapter King-Traugott Scholarship,** Sandhya Sapkota, mechanical engineering, City College of New York. It is named in memory of Fritz Traugott, Ph.D., Fellow ASHRAE, Life Member, and Harry King, Life Member.
- **J. Richard Mehalick Scholarships: Richard Hollenbach III and Kevin White, mechanical engineering, University of Pittsburgh.** The scholarship is named in memory of an ASHRAE member who was a graduate of the University of Pittsburgh and oversaw development of air conditioning equipment used in commercial, military, aerospace and transportation applications
- **Donald E. Nichols Scholarship:** Hayden Rhymer, mechanical engineering, Tennessee Technological University. The scholarship is named for a former ASHRAE vice president and graduate of Tennessee Technological University.
- **Minnesota Chapter Peter Potvin Scholarship: Ryley Davis, mechanical engineering, Minnesota State University.** The scholarship is named in memory of a former president of the Minnesota Chapter.
- **Region I Setty Family Foundation Scholarship:** Michelle Shadpour, mechanical engineering, University of Southern California. The scholarship is named after Boggarm Setty, Fellow ASHRAE, Life Member.
- **Region III Setty Family Foundation Scholarship:** James Braza, mechanical engineering, University of Pittsburgh. This scholarship is named after Setty.
- **Region VIII Scholarship:** Matthew Coleman, mechanical engineering, University of Texas-Permian Basin.
- **High School Senior Scholarships:** Daryl Williams, engineering, North Carolina State University; Tyler McCubbins, mechanical engineering, University of Tennessee; Anne Wellford, engineering, Trinity University; and Emily Ruble, engineering, Western Kentucky University.

For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2017-2018 undergraduate, regional/chapter and university-specific scholarships. The deadline is December 1