

ASHRAE Rochester



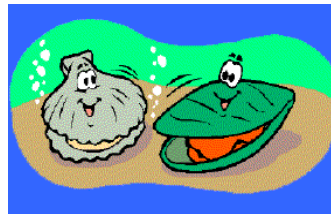
VOLUME 10, ISSUE 1

SEPTEMBER, 2015

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ASHRAE Clambake Meeting info



Topic: Downtown Roaring: Major Economic News

(PDH Pending)

Presenter: Heidi Zimmer-Meyer,
Rochester Downtown Development Corp., President

When: Monday September 14th, 2015 at 5pm

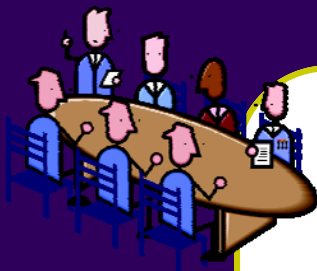
Where: Burgundy Basin Inn, Pittsford, NY

Cost: \$25.00 plus \$7.50 per dozen clams (No limit, Pre-order as many
dozen as you want)

Tickets must be purchased by **September 9th**. No tickets will be sold at
the door. **See clambake announcement on page 5** of this issue for
specifics on how to make your reservation.

Reservations are Required

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and may not be reproduced without special permission of the chapter.



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cmwalter@trane.com

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Buyer's Guide
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We are still working on firming up details for this year, but save the date!

ASHRAE 2015-2016 Preliminary Meeting Schedule				
Date	Event	pdh / Theme	Location	Schedule
Monday, 9/14/2015	Downtown Roaring: Major Economic News (presented by Heidi Zimmer-Meyer, Rochester Downtown Development Corp.)	Pending Membership Night	Burgundy Basin	5:00 PM
Tuesday, 10/13/2015	Chilled Beams (presented by LTG)	Pending	Mario's	12:00 PM
Monday, 11/9/2015	Environmental Quality in High Performance Buildings (presented by Brian Monk P.E., Racan) Distinguished Lecturer	Pending	Mario's	12:00 PM
Monday, 12/14/2015	Control Systems - Ways to Identify Performance Issues (presented by Day Automation)	Pending Resource Promotion	Mario's	12:00 PM
Monday, 1/11/2016	Operation and Applying Drives (presented by Kevin Dichl - Yasawa America, Inc.)	Pending	Mario's	12:00 PM
Friday, 2/5/2016	Annual ASHRAE Valentines Dinner Dance	---	Colgate Rochester Crozer Divinity School	7:00 PM
Monday, 2/8/2016	Building Load Analysis (presented by Robert Feduik, Carrier Corporation)	Pending Membership Promotion	Mario's	12:00 PM
Monday, 3/14/2016	Facility Tour University of Rochester - Strong Hospital Central Plant	---	Strong Hospital	5:00 PM
Monday, 4/11/2016	Retro-Commissioning Existing Buildings (presented by Al Rodgers & Ron Sanger)	Pending	Mario's	12:00 PM
Monday, 5/9/2016	Annual ASHRAE Golf Outing and Picnic	---	Ravenwood Golf Club	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 Message

As the official start of the new ASHRAE year took place on July 1st, I want to take this opportunity to thank Ed Burns for the fantastic job he did as last year's President and for the hard work that he put forth. Our chapter thrived under his leadership. Thank-you Ed! I would also like to show my appreciation for the other officers, committee chairs and board of governors that have volunteered their time to serve our chapter. The success of our Chapter, through educational monthly programs, and in offering networking and professional development, is because of these volunteers so please join me in recognizing the following people for their continued support:

Jeff Close, President Elect & Program
 Bill Clark, Secretary
 Paul Kenna, Treasurer
 Ed Burns, Immediate Past President
 Scott Edwards, Newsletter & Board of Governors
 Mike Benedict, Board of Governors
 Tom Streber, Board of Governors
 Branden Farnsworth-Weinblatt, Board of Governors
 Steve Dear, Board of Governors
 Sam Scorsone, Board of Governors
 Tim Duprey, Reception & Attendance
 Lee Loomis, Historian
 Jake Hall, Membership Promotion
 Matt Devlin, Research Promotion
 Chris Lukasiewicz, Student Activities Chair
 Al Rodgers, Awards
 Jeff Wiedrick, Chapter Technology Transfer Chair
 Bill Murray, Education Chair
 Mark Kukla, Publicity Chair
 Kevin Wind, Webmaster
 Matt Kremers, YEA Chair
 Michelle Sommerman, Nominating
 Jim Browe, Picnic & CRC 2016 Chair
 Marianne Schumacher, Buyers Guide
 Jody McGarry, Valentine's Dance
 Mike Nohle, Refrigeration Chair
 Tom Burke, Government Advocacy Chair



Christina Walter, 2015-2016 President

Our chapter is busy planning this year's meetings. If you have any suggestions for topics or speakers, please reach out to Program Chair, Jeff Close at jeff.close@pres-services.com. To go along with that, I want to thank Bill Murray who has been instrumental in helping us to certify many of our monthly presentations so we can issue PDH credits to attendees who are professional engineers.

I look forward to seeing you at our opening season Clambake on September 14th!

Christina Walter
 2015-2016 President - Rochester Chapter

ASHRAE CLAMBAKE



When: September 14th, 2015
Where: Burgundy Basin Inn
 1361 Marsh Road Pittsford NY 14534
Time: 5:00 P.M.
Cost: \$25.00 plus \$7.50 per dozen clams
 (No Limit, Pre-Order as many dozen as you want)

Tickets must be purchased by September 9th. No tickets sold at the door.


ASHRAE CLAMBAKE
Membership Promotion Night

Topic: DOWNTOWN ROARING: Major Economic News

Presenters: Heidi Zimmer-Meyer, Rochester Downtown Development Corp., President.

PDH Credits: Pending

Reservations: www.rochester.ashraechapters.org




Walnut Grove Pavilion - Burgundy Basin Inn

Directions:

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

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

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

Non-ASHRAE Members are Welcome!

Cut Here

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

Name: _____ ASHRAE Member Yes No
 (Circle one)

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Number of Buffet Tickets: _____ x \$25.00 = Total \$ _____

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

Total Check Amount: \$ _____

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

Reservations must be mailed in by September 9th

*BIO**Heidi N. Zimmer-Meyer*

Heidi Zimmer-Meyer is currently President of the Rochester Downtown Development Corporation (RDDC), where she has held a number of positions over the past 31 years.

Ms. Zimmer-Meyer is Vice Chair of the NYS Urban Council, and serves on the Community Development and Entrepreneurship & Innovation Workgroups of the Finger Lakes Regional Economic Development Council. She also serves on the City's Parking Advisory Committee, Rochester Convention Center Management Corporation Board, Rochester Police Chief's Council, and as an alternate on the City Planning Commission. She has been very involved with the Rochester Area Community Foundation, serving on its Board as a Vice President and Chair of its Mission Related Investing Subcommittee, and was active on the Facing Race, Embracing Equity (FR=EE) initiative's Jobs & Economic Growth Workgroup. Ms. Zimmer-Meyer also served for 21 years as Executive Director of Downtown Special Services, Inc. (DSSI), the charitable not-for-profit corporation that operated the "Red Shirts" program using retired and off-duty law enforcement personnel to provide on-street safety services.

Prior to joining RDDC, Ms. Zimmer-Meyer was Special Assistant to the State Director for the U.S. Dept. of Housing and Urban Development in Greensboro, North Carolina; a consultant to the U.S. Bureau of Indian Affairs in Chapel Hill, North Carolina; and staff assistant to the Buffalo Landmark and Preservation Board in Buffalo, New York. She holds a Master's Degree in City and Regional Planning with a joint degree in Economic Development and Real Estate Development from the University of North Carolina at Chapel Hill, and a B.A. degree from the University of Rochester with a double major in Anthropology and Urban Sociology.

RDDC is a not-for-profit business association, a leadership vehicle, and proactive organization which mobilizes public and private resources to track the marketplace and to catalyze downtown development projects. Working collaboratively with the City of Rochester, RDDC led the recent launch of the Downtown Innovation Zone (DIZ). RDDC has also been instrumental in the redevelopment of the Midtown block, development of new market-rate housing downtown, the redevelopment of High Falls, the creation of the downtown youth arts center ("The Cypher"), and such large projects as Frontier Field, the Bausch & Lomb World Headquarters, the Bausch & Lomb Library building, and the Blue Cross and Blue Shield building. RDDC also brought the Urban Land Institute's national panel to Rochester in June of 2005, and is currently leading the effort to explore a Business Improvement District for downtown Rochester.

(8/3/15)



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, Christina Walter 585-486-2148 or by email cmwalter@trane.com.

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

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

Membership

ASHRAE Rochester Chapter- Membership Promotion

I hope that this newsletter finds everyone gearing up for an exciting start to the ASHRAE year. That being said, our chapter is currently at about 240 members and growing! This year there is a lot of focus on not only our new members, but also keeping the members that we currently have. So if you used to come to ASHRAE Chapter meetings and events, why not come to the Clambake- its great food, great people, and great information about our industry. If you are a regular, be thinking about who you might invite to help grow the circle of influence.

Also, I know there is a lot of "Social Media" to keep track of, but please take a few seconds to make sure that your profile is up to date at www.ASHRAE.org. Maybe you've changed jobs? email address? or would like to advance your membership (i.e. Associate Member to Member). Keeping this information current ensures that you get the most value out of ASHRAE.

There is also a lot of emphasis this year to attempt to do as much of our Membership Renewals and New Member Applications online to decrease the amount of paperwork for the Society and make the process "Greener." If you have any questions or need assistance with any Membership Issues, please let me know.

Thank you, and as always, thank you for your support for ASHRAE.

Sincerely,

Jake Hall

Membership Promotion Chair

2015-2016 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Members	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	240	0	0	0	0	0	0	0

Board of Governors Meeting Minutes



BOARD OF GOVERNORS MEETING MINUTES

Meeting Date: Wednesday, July 29, 2015

Location: Strathallan Hotel, Rochester, NY

President / CRC Alternate	Christina Walter	X
President Elect / Program	Jeff Close	X
Secretary	Bill Clark	X
Treasurer	Paul Kenna	X
Immediate Past President / CRC Delegate	Ed Burns	X
Board of Gov. (1)	Steve Dear	X
Board of Gov. (1)	Sam Scorsone	X
Board of Gov. (2)	Branden Farnsworth-Weinblatt	X
Board of Gov. (2)	Tom Streber	X
Board of Gov. (3)	Mike Benedict	X
Board of Gov. (3)	Scott Edwards	X
Attendance	Tim Duprey	X
Historian	Lee Loomis	X
Membership Promotion	Jake Hall	X
Newsletter Editor	Scott Edwards	X
Resource Promotion	Matt Devlin	X
Awards	Al Rodgers	X
CTTC	Jeff Wiedrick	X
Education	Bill Murray	
Publicity	Mark Kukla	X
Website	Kevin Wind	
YEA Chair	Matt Kremers	
Student Activities	Chris Lukasiewicz	X
Nominating (2 nd Past President)	Michelle Sommerman	
Picnic/Golf Chair	Jim Browe	
Buyers Guide	Marianne Schumacher	X
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: 12:04 PM

Meeting Minutes:

1. Call to Order and Introductions Chris Walter
 - Chart of Officers and Committee Chairs
 - Request was made to Board of Governors to help with committees
 - Please provide updated info if necessary

2. Roll Call Bill Clark

3. Review and Approval of Previous Mtg Minutes All
 - Changes for MOPS from May meeting to be resent for approval.

4. 2014-2015 Treasurer's Report Paul Kenna
 - Picnic Financial Summary
 - Income \$26,996.72
 - Expenses \$20,019.96
 - Profit \$6,976.76
 - Year End Financial Summary
 - i. Checking Account ~ \$21,569.93
 - ii. PayPal Checking Account ~ \$831.10
 - iii. PayPal Account ~ \$1,469.62

5. Program Report
 - Last Year Attendance Summary Tim Duprey
 - i. Attendance dropped near the end of last year.
 - ii. Tim has changed the wording in the meeting invites to encourage members to attend.
 - iii. Tim suggested talking to engineering firms about participating in meetings to help increase attendance.
 - iv. Please provide any ideas to boost attendance.
 - v. Last year we lost 19 members but added 18 new members, 16 of them YEA members.
 - This Year Preliminary Calendar Jeff Close
 - i. Program is based on conversations from BOG meetings and golf outing.
 - ii. The program topics are tentative at this time.
 - iii. Goal for clambake meeting is a project or program with local impact.
 - iv. We may look into testing new venues as Mario's is moving in 2016.
 - v. Bill Murray has offered to continue approving presentations for PDH credits.

Board of Governors Meeting Minutes

6. Newsletter

- Deadlines for info (Newsletter/RES) Scott Edwards
 - i. Scott to send request to newsletter information on the 20th of each month.
 - ii. Front page of newsletter to highlight upcoming monthly meeting.

7. Chapter Operation Information Packet Chris Walter

- Manual of Chapter Operations (Partial) - can be accessed at www.ASHRAE.org
- The following sections were included in the information packet. Please review these sections.
 - i. Section 1 Officers
 - ii. Section 2 Chapter Committees
 - iii. Section 8 MBO
 1. Be specific with goals.
 2. Everyone on the board should have some sort of a goal.
 - a. Example - new board member should participate on a committee.
- Rochester Chapter Manual of Procedures
 - i. Please make note of any updates needed to sections that pertain to you.
- Rochester Chapter Bylaws and Constitution
- Presidential Award of Excellence (PAOE)
 - i. Login information for PAOE points is located in the information packet.
 - ii. It is recommended to enter the PAOE points at least twice a year.
 1. Initial reporting by November 1st and final reporting by July 1st.
 - iii. For those required to enter PAOE points go over PAOE guidelines and set goals to earn points in specific categories.
- Ed Burns offered to help organize chapter information electronically.

8. New Business:

- CRC Registration- Syracuse, NY August 20-22, 2015
- 2014-15 Chapter Summary Report and Power point to be prepared
- Rochester Chapter workday at Sensory Stimulation Building at Sunshine Campus, Saturday September 19th
 - i. Work is to finish hot water system and give members a chance to see the building.
- Research Centralized Training, September 18-19 in Chicago, IL
- CRC in Rochester will be August 18-20, 2016

9. Old Business:

- 2014-15 Audit and Audit Committee
- Lynn Bellenger Hall of Fame Award Nomination

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

- Friday, September 11, 7:30-8:30 am, Trane
- A call in number for people who cannot make the meeting in person can be set up.

11. Adjourned 1:46 P.M.

Student Activities

STUDENT ACTIVITIES



Do you know the benefits of being an ASHRAE Student Member?

- **Monthly ASHRAE Journal** exploring issues such as indoor air quality, energy management, solar developments, and more.
- **ASHRAE Insights** monthly newspaper devoted to news and information about the Society at every level including news of special interest to students.
- **The HVAC&R Industry eNewsletter** for weekly industry news and information.
- **SmartStart Program** to ease into full membership dues over a three year period after graduation.
- **Opportunities** to participate in the Student Design Project Competition, Grants-in-Aid, Society and Local Scholarships, and Student Branch Activities.
- Access to **The Student Zone** web page which offers valuable career and educational resources.
- **ASHRAE Publication Discounts** at the ASHRAE Student Store including ASHRAE books, standards, reports, charts, and more.

Do you know anyone that could benefit from being an ASHRAE Student Member?

- Join over 5,000 other students taking advantage of ASHRAE benefits today at <https://ashrae.org/membership--conferences/join-now>.

Visit the Student Zone at <https://ashrae.org/membership--conferences/student-zone> to learn about:

- Design Competition
- Scholarships and Grants
- New Faces of Engineering – College Edition
- K-12 Activities
- Membership Benefits and Meetings
- Educational Resources
- Student Activities
- Student News
- Student Branches
- ASHRAE's SmartStart Program



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.

ASHRAE Region I 2015-2016

Executive Committee & Society Contacts

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Region Representative

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Region Membership Promotion

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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.

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News

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For Immediate Release
July 22, 2015

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ICC, ASHRAE Outline Roles to Consolidate IgCC and 189.1 in Response to Call from Industry

"IgCC Powered by 189.1" will provide the design and construction industry with the single, most-effective way to deliver sustainable, resilient, high-performance buildings

In a deal nearly two years in the making, the International Code Council (ICC) and ASHRAE have signed the final agreement that outlines each organization's role in the development and maintenance of the new version of the *International Green Construction Code* (IgCC) sponsored by the American Institute of Architects (AIA), ASHRAE, ICC, the Illuminating Engineering Society (IES) and the U.S. Green Building Council (USGBC). The code, scheduled to be released in 2018, will be powered by ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings* developed using the American National Standards Institute (ANSI) approved ASHRAE consensus process. The joint Standing Standards Project Committee 189.1 (SSPC) will serve as the consensus body that will work to ensure the standard is consistent and coordinated with the ICC Family of Codes.

The ICC will be responsible for Chapter 1, Scope and Administration. For the 2018 IgCC, ICC will coordinate the technical provisions developed by ASHRAE with the provisions in Chapter 1 of the 2015 IgCC. As a result, the 2016 Group B Cycle will not include Chapter 1 of the IgCC for code changes. With ASHRAE developing technical provisions, ICC's 2017 Group C cycle to develop the 2018 IgCC has been cancelled. Part of the development process for the 2018 technical provisions will include the SSPC review of the 2015 IgCC and consideration of content for inclusion in 189.1-2017 along with changes generated by the committee and proposals submitted by stakeholders. Following the completion of the 2018 IgCC, Chapter 1 of the IgCC will be developed by ICC using its consensus code development process.

"Our goal in this partnership all along has been to share resources to increase use of the IgCC and make it simpler for code officials, designers and contractors to build environmentally efficient structures that will lessen energy and water consumption and reduce the carbon footprint," said ICC Board President Guy Tomberlin, CBO. "We are now situated to do just that. We thank our partners, ICC Members and all who will contribute to the development of the *IgCC powered by 189.1*."

The Executive Steering Committee for the effort to align 189.1, the IgCC and LEED consists of representatives of ICC, ASHRAE, USGBC, AIA and IES, and the SSPC Chair.

"The full integration of Standard 189.1 to serve as the technical content of the IgCC will leverage ASHRAE's technical expertise and increase the standard's influence on sustainable buildings," noted ASHRAE President David Underwood. "We look forward to continuing to engage a broad spectrum of stakeholders in development of Standard 189.1 following the ANSI consensus standards development process. The result will be a comprehensive compliance tool that can be used by jurisdictions worldwide that are committed to a more sustainable built environment."

Continued on next page

The new publication also will align the Leadership in Energy & Environmental Design (LEED) rating system program to ensure a streamlined, effective set of regulatory and above-code options. The green building certification program recognizes best-in-class building strategies and practices. To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification.

"This joint initiative will forge the fundamental regulatory building blocks of green construction on which future green building leadership initiatives can grow," said Brendan Owens, chief of engineering at USGBC. "It takes courage to think differently and to commit to a new model, and for that we thank the leadership of the partner organizations behind the *IgCC powered by 189.1*."

"Our combined membership, consisting of practicing design professionals, code officials, and the building industry representatives, supports the development of codes and standards that protect the health, safety and welfare of the public at large," said AIA CEO Robert Ivy, FAIA. "Through this significant agreement, both the AIA and the ICC agree to work more closely to achieve our common goals."

In 2010, ASHRAE and ICC joined forces by making 189.1 an alternative compliance path for the IgCC. The new agreement between ASHRAE and ICC furthers the effort these organizations initiated in 2010 by providing the market with a single code that is coordinated with the International Family of Codes.

"IES looks forward to continuing to partner with ASHRAE in developing technical content for Standard 189.1," according to Rita Harrold, IES representative, "and to participating with the other organizations in this unique collaborative opportunity to satisfy the goals for the new version of IgCC."

The agreement creates a comprehensive framework for jurisdictions looking to implement and adopt green building regulations and codes. The unprecedented collaboration leverages the unique organizational expertise of the partners participating in this evolution of green building codes and brings AIA, ASHRAE, ICC, IES and USGBC into strategic and tactical alignment on the relationship between 189.1 and the IgCC. Other organizations that support this vision and would like to join the effort are invited to contact Dominic Sims at DSims@IccSafe.org or Jeff Littleton at JLittleton@ashrae.org.

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News

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For Release:

July 23, 2015

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ASHRAE, IAQA Offer Dual Membership Program

ATLANTA – A new dual membership program is available to members of ASHRAE and the Indoor Air Quality Association (IAQA) as part of consolidation between the two groups finalized earlier this year.

ASHRAE and IAQA announced last year that they were joining forces to combine resources to improve indoor air quality in the built environment.

Under the dual membership program, ASHRAE Members and Associate Members can join IAQA as individual members for \$131. Individual IAQA members can join ASHRAE for \$151. Both are provided with the regular benefits of individual membership in the other association. ASHRAE, through publishing, education, standards writing and research, offers building design and operation guidance. IAQA focuses on providing information on the quality of the indoor environment including updates on governmental and regulatory activity.

"A joint ASHRAE/IAQA membership will allow the IAQA member to access detailed ASHRAE research and combine this with practical application within the IAQA network," ASHRAE President David Underwood said. "We are excited to offer this dual membership program and encourage all interested members to participate."

"The joint IAQA/ASHRAE membership opens great possibilities for both associations to come together and make a real difference for both the public and the industry as a whole," IAQA President Kent Rawhouser said.

ASHRAE members interested in joining IAQA should call 844-802-4103 to join, and visit www.ashrae.org/joiniaqa to learn more about the about the IAQA membership offer.

IAQA members interested in joining ASHRAE should call 404-636-8400 and visit www.iaqa.org/ashrae-discount to learn more about the ASHRAE membership offer.

The Indoor Air Quality Association (IAQA) is a nonprofit organization dedicated to bringing practitioners together to prevent and solve indoor environmental problems for the benefit of customers and the public. IAQA was established in 1995 and is the nation's largest indoor air quality trade association with over 2,000 members and some 15 local chapters. More information is available at www.iaqa.org/news.

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Aug. 5, 2015

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ASHRAE Announces Call for Papers for IAQ 2016 Conference, Defining Indoor Air Quality: Policy, Standards and Best Practices

ATLANTA – A call for papers is now open for the IAQ 2016 conference, "Defining Indoor Air Quality: Policy, Standards and Best Practices," co-organized by ASHRAE and AIVC.

The conference will take place Sept. 12-14, 2016, in Alexandria, Va. at the Crowne Plaza Old Town Alexandria.

The conference is the 18th in the ASHRAE IAQ series since its inception in 1988 and the 37th AIVC conference. The program will focus on current and emerging definitions of indoor air quality and how they are – or could be – implemented in government policies and in standards for the design and operation of buildings and other indoor environments used worldwide. IAQ 2016 will also highlight best practice solutions that go beyond existing minimum requirements.

Authors are invited to submit papers on the following topics and others appropriate to the Conference theme:

- Definitions and metrics
 - Perception vs. performance
 - Monetization of IAQ
 - DALY (disability adjusted life years) and related approaches
 - Task performance/productivity
 - Integrated IEQ metrics
- Regulatory vs. voluntary compliance for achieving IAQ
- IAQ certification programs
- Low energy/high performance buildings and IAQ
- IAQ in sustainable building programs
- Interactions: IEQ, climate change, energy efficiency
- Monitoring
 - Sensors and big data
 - Post occupancy evaluations
- Best practices
 - Case studies with data
 - Design, construction, operation
 - Commissioning
- Ventilation
 - IAQ, energy and moisture impacts
 - Mechanical vs. natural ventilation
 - IEQ and natural ventilation
- Residential IAQ standards and policies
- IAQ in Developing Economies
- IAQ in mobile environments: aircraft, trains, ships, motor vehicles

Abstracts are due Nov. 2, 2015. Upon acceptance, papers are due Feb. 16, 2016.

The conference program will include internationally acclaimed keynote speakers, original peer reviewed papers and the latest in indoor environmental quality control, plus invited speakers, workshops and panel discussions.

To submit an abstract or for more information, go to www.ashrae.org/IAQ2016.

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For Release:
July 27, 2015

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Numerous Standards, Addenda Open for Review

ASHRAE Public Review Process Makes for Stronger Standards

ATLANTA – Thirty proposed addenda and as well as actions related to several other ASHRAE standards and guidelines are open for public review, which allows interested parties to comment on the technical guidance contained in the documents.

“The public review process allows interested parties to give input into development of standards and their related addenda and guidelines,” Jim Vallort, an ASHRAE vice president and chair of the Society’s Technology Council, which oversees standard development. “Through public review, our goal is to reach consensus, ensuring publication of a document that has been rigorously examined, questioned and defended. ASHRAE standards are strengthened by virtue of having been through this process.”

The addenda, standards and guideline actions were approved for public comment at the ASHRAE 2015 Annual Conference, June 27-July 1. Addenda to major standards open for review include ASHRAE standards related to thermal comfort, ventilation and indoor air quality in residences, high performing buildings, building automation and energy efficiency.

A complete listing can be found under the documents for July 17 and July 24, 2015 at www.ashrae.org/standardsactions. Among the actions available for public comment are:

Public Review, July 17-Aug. 16, 2015

- Addendum *f* to Standard 15-2013, *Thermal Environmental Conditions for Human Occupancy*
- Addenda *c*, *l* and *n* to Standard 62.2-2013, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*
- Addenda *ar*, *ay*, *az*, *ba*, *bb*, *bc*, *bd*, *bf*, *bh*, *bi*, *bj*, *bk*, *bl*, *bn*, *bo*, *bp* and *bq* to Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Public Review, July 17-Aug. 31, 2015

- Addendum *m* to Standard 62.2-2013, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*
- Addenda *bg* and *y* to Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Public Review, July 24-Aug. 23, 2015

- Addenda *d*, *e*, *f* and *q* to Standard 189.1-2014, *Standard for the Design of High-Performance Buildings Except Low-Rise Residential Buildings*

Continued on next page

Public Review, July 24-Sept. 7, 2015

- Addenda *aj, be* and *bf* to Standard 135-2012, *BACnet – a Data Communications Protocol for Building Automation and Control Networks*

New Projects Call for Comments, July 17-Aug. 16, 2015

- Standard 41.12P, *Standard Methods for Uncertainty Analysis*
- Standard 219P, *Method of Testing the Ability of Liquid Line Filter Driers or Adsorbents to Remove Organic and Inorganic Acid*

New Revision Projects

- Guideline 1.5-2015, *The Commissioning Process for Smoke Control Systems*
- Guideline 22-2012, *Instrumentation for Monitoring Central Chilled-Water Plant Efficiency*
- Guideline 32-2012, *Sustainable, High-Performance Operations and Maintenance*

Title/Purpose/Scope Changes

- SPC 25, *Methods of Testing Forced Convection and Natural Convection Air Coolers for Refrigeration*
- SSCP 55, *Thermal Environmental Conditions for Human Occupancy*
- SPC 90.4, *Energy Standard for Data Centers*
- SPC 175, *Metal Pressure Vessel Methods to Test Materials Used in Refrigeration Systems* (Redesignated as GPC 38P)
- SPC 177P, *Method of Test for Measuring Fractionated Compositions of Refrigerant Blends* (Redesignated as GPC 39P)

Call for Members

- GPC 1.5-2012R, *The Commissioning Process for Smoke Control Systems*
- GPC 22-2012R, *Instrumentation for Monitoring Central Chilled-Water Plant Efficiency*
- GPC 32-2012R, *Sustainable, High-Performance Operations and Maintenance*
- SPC 41.12P, *Standard Methods for Uncertainty Analysis*

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For Release:
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Keeping Occupants Comfortable Without Raising Energy Costs

ATLANTA – Keeping building occupants comfortable while minimizing energy use is a balancing act for engineers who design HVAC&R systems and buildings. One way they can achieve this balance is through requirements in a standard from an international technical association.

ASHRAE's Standard 55, *Thermal Environmental Conditions for Human Occupancy*, specifies the combinations of indoor thermal environmental factors and personal factors that will produce thermal environmental conditions acceptable to a majority of the occupants within the space.

Earlier this week, research that looks at the method used to determine thermal comfort in Standard 55 was published via an article, "Energy Consumption in Buildings and Female Thermal Demand," in *Nature Climate Change*. The research looks at the method used to determine thermal comfort in ANSI/ASHRAE Standard 55.

"The interpretation of the authors regarding the basis for Standard 55 is not correct," Bjarne Olesen, Ph.D., a member of the ASHRAE Board of Directors, internationally renowned thermal comfort research and former chair of the Standard 55 committee, said. "The part of the standard they are referring to is the use of the PMV/PPD index. This method is taken from an ISO/EN standard 7730, which has existed since 1982. The basic research for establishing comfort criteria for the indoor environment was made with more than 1,000 subjects with equal amount of women and men.

"In the main studies, where they did the same sedentary work and wore the same type of clothing, there were no differences between the preferred temperature for men and women. So the researchers' finding of a lower metabolic rate for females will not influence the recommended temperatures in the existing standards. Also their study is not conclusive. They only studied 16 females at a sedentary activity. They should also have studied 16 men at the same activity to be able to compare. The reason why we, in some field studies, find that women prefer higher room temperature than men is attributed to the level of clothing. Women adapt better their clothing to summer conditions while men are still wearing suit and tie. So if the thermostat is set to satisfy the men, the women will complain about being too cold. In the standard, this adaption of clothing to summer is taken into account so if the standard is followed the women would be satisfied; but maybe not the men."

ASHRAE President David Underwood notes that the standard has been continually refined and updated since it was first published in 1966, reflecting changes in the industry and new research as it becomes available. Standard 55 is based on an earlier document developed in 1938 by two predecessor societies of ASHRAE, titled *Code for Minimum Requirements for Comfort Air Conditioning*.

Continued on next page

"The standard continues to focus on defining the range of indoor thermal environmental conditions acceptable to a majority of occupants, while also accommodating an ever increasing variety of design solutions intended to provide comfort and to respect today's imperative for sustainable buildings," Underwood said.

Olesen notes the researchers should have consulted other studies and technical guidance.

"They should also have looked at the ASHRAE Handbook, Fundamentals, which explains the background for the standard and addresses differences between men and women, young and elderly, etc. with literature references," he said.

In their paper, researchers Boris Kingma and Wouter van Marken Lichtenbelt state, "Energy consumption of residential buildings and offices adds up to about 30 percent of total carbon dioxide emissions; and occupant behavior contributes to 80 percent of the variation in energy consumption. Indoor climate regulations are based on an empirical thermal comfort model that was developed in the 1960s. Standard values for one of its primary variables—metabolic rate—are based on an average male, and may overestimate female metabolic rate by up to 35 percent. This may cause buildings to be intrinsically non energy-efficient in providing comfort to females. Therefore, we make a case to use actual metabolic rates. Moreover, with a biophysical analysis we illustrate the effect of miscalculating metabolic rate on female thermal demand. The approach is fundamentally different from current empirical thermal comfort models and builds up predictions from the physical and physiological constraints, rather than statistical association to thermal comfort. It provides a substantiation of the thermal comfort standard on the population level and adds flexibility to predict thermal demand of subpopulations and individuals. Ultimately, an accurate representation of thermal demand of all occupants leads to actual energy consumption predictions and real energy savings of buildings that are designed and operated by the buildings services community."

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Proposed Facility Smart Grid Model Standard Reaches Globally: Open for Public Review

ATLANTA – A proposed standard from ASHRAE and the National Electrical Manufacturers Association (NEMA) to create smart facilities supporting smart grids is part of an international effort. The proposed standard is open for public review from Aug. 7 until Oct. 6, 2015. To read the draft standard or to submit comments, visit www.ashrae.org/publicreviews.

ASHRAE/NEMA Standard 201P, *Facility Smart Grid Information Model*, would provide a common basis for electrical energy consumers to describe, manage and communicate about electrical energy consumptions and forecasts.

Committee chair Steve Bushby said 201P also is being considered for adoption as an international standard through the International Organization for Standardization. In addition, the standard coordinates with and uses content from the International Electrotechnical Commission's Common Information Model (CIM) standards. It also coordinates with the North American Energy Standards Board's basic energy usage data model standard, informally known as Green Button, that facilitates consumer access to energy usage information for homes and commercial and industrial buildings.

"The effort to substantially modernize and transform electric grids around the world is an enormous undertaking that reflects both the size and importance of those grids," Bushby said. "Viewed in its entirety, it is an intentional effort involving hundreds of organizations and companies and will impact billions of people. The standards infrastructure that will be needed to support this transformation may include over 100 standards by the time that is fully in place. This standard is one part of that infrastructure."

The proposed standard defines an object-oriented information model to enable appliances and control systems in homes, buildings and industrial facilities to manage electrical loads and generation sources in response to communication with the smart electrical grid and to communicate information about those electrical loads to utility and other electrical service providers.

"Almost all electricity is consumed in a building of some kind – homes, retail establishments, offices, schools, factories, hospitals and the list goes on," he said. "Standard 201P attempts to capture the breadth and diversity of these consumers by using the term 'facility.' A facility is any kind of building or collection of buildings and all of the electrical loads or local generation sources contained within them or controlled by the facility owner."

The standard is part of ASHRAE's supporting efforts for the Smart Grid Interoperability Panel, 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.

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Aug. 17, 2015

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ASHRAE Legionella Standard Adopted in New York Following Outbreak

ATLANTA – With 12 confirmed dead and more than 120 cases of infection due to legionellosis, New York City Council on Thursday adopted legislation that requires adherence to part of ASHRAE's newly published Legionella standard.

The legislation addresses registration and inspection of cooling towers. It requires owners to create and file a plan to maintain equipment to comply with Section 7.2 of ANSI/ASHRAE Standard 188-2015, *Legionellosis: Risk Management for Building Water Systems*.

The standard provides minimum Legionellosis risk management requirements for the design, construction, commissioning, operation, maintenance, repair, replacement and expansion of new and existing buildings and their associated water systems and components.

"Standard 188 was published just two short months ago," ASHRAE President David Underwood said. "Although the circumstances surrounding its use are tragic, ASHRAE is grateful that the standard is available to set requirements to manage risk of this bacteria. We are hopeful other governments will follow the lead of the New York City Council to help safeguard public health."

Michael Patton, a member of the committee who wrote the standard, testified before the Council earlier this week on behalf of ASHRAE. He spoke to the Council's proposal to adopt Section 7.2, noting that other sections also would play a role in reducing risks. Section 7.2 lists common tasks and steps for items such as new system start-up and seasonal shutdowns, general system maintenance, water treatment, disinfection plans, etc.

While Patton encouraged full adoption of the standard, he said it was helpful that at least Section 7.2 was included. Patton was thanked by chairman Jumaane Williams for making himself and ASHRAE available so quickly.

"Section 7 is very good by itself," Patton testified, "but it doesn't really address the whole idea of informing building owners, managers, property managers how to put a plan for a whole building into place and what it should contain."

Underwood said ASHRAE will continue its work in getting the full standard adopted in New York City and in other locations.

Specific requirements in the standard include:

- Minimum Legionellosis risk management requirements for buildings and their associated potable and non-potable water systems.
- Establishment by building owners of a Program Team and (in turn) a Water Management Program for which they are responsible in order to comply with the standard.
- Provision of specific and detailed requirements for what Legionellosis control strategies must accomplish and how they are to be documented – but, does not provide (or place restrictions on) what specific strategies are to be used or applied.

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For Release:
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ASHRAE Announces Fall Online Courses

ATLANTA – Ten online professional development seminars focused on commissioning, environmental quality, energy efficiency, HVAC applications, and standards and guidelines are being offered this fall by the ASHRAE Learning Institute (ALI).

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each course completed.

ALI courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Online courses are offered every spring and fall.

For pricing or to register, visit www.ashrae.org/onlinecourses.

The courses offered this fall cover a variety of topics relevant to today's built environment, including:

Commissioning

- Commissioning for High-Performance Buildings, Oct. 19
- Commissioning Process in New & Existing Buildings, Part 1: Oct. 21, and Part 2: Oct. 28

Environmental Quality

- Humidity Control: Applications, Control Levels, and Mold Avoidance, Sept. 16

Energy Efficiency

- Combined Heat & Power: Creating Efficiency through Design & Operations, Oct. 26
- Energy Management Best Practices, Oct. 12

HVAC Applications

- Designing High-Performance Healthcare HVAC Systems, Sept. 21
- Introduction to BACnet®, Sept. 14
- Laboratory Design: The Basics and Beyond, Nov. 2

Standards & Guidelines

- Fundamental Requirements of Standard 62.1-2013, Nov. 4
- Complying with Standard 90.1-2013: HVAC/Mechanical, Oct. 14

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For Release:
Aug. 25, 2015

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ASHRAE Provides Assistance to Future Engineers Through Scholarships

ATLANTA – Twenty-nine students are receiving \$152,000 worth of financial assistance for the 2015-16 school year via ASHRAE's scholarship program.

In addition, ASHRAE announced creation of several new scholarships, which will be available for 2016-2017. Those are:

- **Gordon V.R. Holness Scholarship**, named in honor of ASHRAE Presidential Member Holness, P.E., Fellow ASHRAE, Life Member, who served as president in 2009-10.
- **ASHRAE Central New York Chapter King-Traugott Scholarship**, named in memory of Fritz Traugott, Ph.D., Fellow ASHRAE, Life Member, and Harry King, Life Member. King created the Air Conditioning Engineering Technology program at SUNY Canton in 1948 and helped orchestrate its tremendous growth until his retirement in 1983. After receiving his doctorate from Syracuse University, Traugott went on to become a guest lecturer and lifelong supporter of the University, sharing a vision for the motivation, inspiration, and education of young engineers, especially in energy conservation.
- **James R. Bullock Jr. Scholarship**, named in honor of Bullock, P.E., Life Member, a longtime ASHRAE member who serves as president of Environmental Air Systems Inc.
- **Freshman Engineering Scholarship**

Over the course of 27 years ASHRAE has awarded more than \$1.45 million to over 300 deserving undergraduate and graduate students. The 29 recipients of ASHRAE's scholarship assistance for 2015-2016 are:

- **Willis H. Carrier Scholarships**: \$10,000 each for one year, Kayland Adams, East Carolina University, mechanical engineering; and Anna Schleifer, Clemson University, mechanical engineering. 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, Ivan Beentjes, University of Waterloo, mechanical engineering; Quentin Williams, California Maritime Academy, mechanical engineering; and Michael Newman, University of Manitoba, mechanical engineering. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.
- **Lynn G. Bellenger Engineering Scholarship**: \$5,000 for one year, Caroline Feldman, University of Dayton, mechanical engineering. The scholarship recognizes a female undergraduate engineering student and is named in memory of the Society's first female president.
- **Lynn G. Bellenger Engineering Technology Scholarship**: \$5,000 for one year, Erin Adkins-Oury, University of Southern Mississippi, construction engineering technology. The scholarship recognizes female engineering technology students.
- **Region IV Benny Bootle Scholarship**: \$5,000 for one year, Hung Van Nguyen, University of South Carolina, mechanical engineering. The scholarship is awarded to an undergraduate engineering or architecture student attending an institution in ASHRAE Region IV, which covers North Carolina, South Carolina and Georgia. It is named for a former Region VI chair and regional director on the ASHRAE Board of Directors.
- **Frank M. Coda Scholarship**: \$5,000 for one year, Michael Schlosser, University of Windsor, mechanical engineering. The scholarship was created in memory of ASHRAE's former executive vice president, who served from 1981-2004.
- **David C.J. Peters Scholarship**: \$5,000 for one year, Victoria Brinemugha, Pennsylvania State University, architectural engineering. The scholarship is awarded to qualifying students attending Pennsylvania State University, Virginia Tech, California State University, Oklahoma State University, University of Texas, Clemson University, North Carolina State University, University of Nebraska, Cal Poly State University or University of Nevada. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.

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- **Duane Hanson Scholarship:** \$5,000 for one year, Jordan Shefchik, University of Wisconsin-Madison, mechanical engineering. The scholarship was established by Gayner Engineers and is named for the company's former president.
- **Alwin B. Newton Scholarship:** \$5,000 for one year, Andrew Palcan, Milwaukee School of Engineering, architectural engineering. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- **General Scholarships:** \$5,000 each for one year, Scott Tucci, Missouri University of Science and Technology, mechanical engineering; and Yirong Zhang, University of Illinois at Urbana-Champaign, mechanical engineering.
- **Legacy Scholarship:** \$5,000 for one year, Zeb Pontius, Miami University, mechanical engineering.
- **Bachelor Engineering Technology Scholarship:** \$5,000 each, Yoginder Rana, Ferris State University, HVAC& technology; Rebecca Robinson, Vermont Technical College, architectural engineering technology; Caleb Bristol, Vermont Technical College, architectural engineering technology; and John Kubacz, Vermont Technical College, architectural engineering technology.
- **Associate Engineering Technology Scholarship:** \$5,000 for one year, Maturin Songang, Cegep Limoilou, mechanical building technology.

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

- **Minnesota Chapter Scholarship:** Matthew Hamilton, University of Wisconsin, mechanical engineering.
- **New Jersey Chapter Scholarship:** Adel Njeim, City College of New York, mechanical engineering.
- **Henry Adams Scholarship:** Smart Maduka, University of Lagos, mechanical engineering. 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.
- **Region III Boggam S. Setty Scholarship:** Andrew Brouwers, Pennsylvania State University, architectural engineering/mechanical engineering option. This scholarship is awarded to an undergraduate engineering student attending an institution within ASHRAE Region III, which covers Delaware, Maryland, Pennsylvania, Virginia and Washington, D.C. and is named after Setty, Fellow ASHRAE, Life Member.
- **Region VIII Scholarship:** Brandon Comisarenco, University of Texas, architectural engineering. The scholarship is awarded to a student attending a school in ASHRAE Region VIII, which includes Arkansas, Oklahoma, Mexico and parts of Louisiana and Texas.
- **High School Senior Scholarships:** Claire Feind, Texas A&M University, engineering; Rachel Hutzel, Purdue University, mechanical engineering technology; Brooke Bialas, South Dakota School of Mines and Technology, mechanical engineering; and Morgan Kelley, Texas A&M University, engineering. The scholarships are provided for high school seniors entering their freshman year of college in an engineering or engineering technology program.

For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2016-2017 undergraduate, regional/chapter and university-specific scholarships. The deadline is December 1, 2015.

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 50,000 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.