ASHRAE Rochester

VOLUME 7, ISSUE 2 OCTOBER 1, 2012

INSIDE THIS ISSUE:

New Scholarship Honors ASHRAE's First Female President

ATLANTA –A scholarship created in memory of Presidential Member Lynn G. Bellenger, P.E., Fellow ASHRAE, has been announced for the 2013-2014 school year.

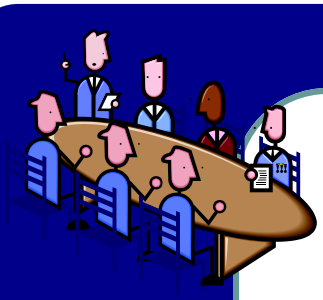
The one-year $ 5,000 Lynn G. Bellenger Scholarship will be awarded to a deserving female undergraduate engineering student pursuing a degree in a field related to HVAC&R.

"Lynn was a role model for us all, and her dedication to energy modeling helped to promote a more sustainable world," ASHRAE President Tom Watson said. "Through this scholarship we hope to build upon her legacy by encouraging students to pursue excellence in the field of engineering, just as she did."

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

(refer to pages 10-13 for a copy of the application form)

Application deadline is December 1, 2012.



Chapter Officers

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msommerman@nrg-concepts.com

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rwind@ibceng.com

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cmwalter@trane.com

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585-289-6816/218-0737(fax)

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Eric C. Smith (3rd year)
585-381-3360
esmith@turnerengineering.com

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bsmith@vpsupply.com

Derrick Day (1st Year)
585-489-7502
Derrick.W.Day@jci.com

Paul Kenna (1st Year)
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Paul.Kenna@carrierenterprise.com

Committee Chairs

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tduprey@pascobas.com

Building Simulation User's Group (BSUG)
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wbishop@pathfinder-ea.com

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

Research Promotion
Paul Kenna 585-295-3114
Paul.Kenna@carrierenterprise.com

SAVE THE DATE

ASHRAE 2012-2013 Meeting Schedule

Date	Event	pdh / Theme	Location	Schedule
09/10/12	Matt Hurlbutt of Greater Rochester Enterprise		Burgundy Basin	5:00 PM
10/09/12	Dave Gordon of Green Building Partners - "Challenges in Applying Traditional Sensors in Ventillation Applications"		Mario's	12:00 PM
11/12/12	Mike Waller of Ravi Engineering & Land Surveying - "Asbestos Recognition and Abatement Techniques" Joint meeting with ASPE Rochester Chapter		Mario's	12:00 PM
12/10/12	Jerome Meyer Sr. of MIS - "ASHRAE Standard 188P on Legionella"		Mario's	12:00 PM
01/14/13	Jeff Day of Day Automation - "The Road Ahead for Facilities Automation"		Mario's	12:00 PM
02/09/13	Annual ASHRAE Valentines Dinner Dance	---	Inn on Broadway	7:00 PM
02/11/13	(Topic and speaker TBD) Joint meeting with SMACNA		Mario's	12:00 PM
03/18/13	(Topic TBD) - Tom Watson (President of ASHRAE) Joint meeting with ASHRAE Buffalo Chapter		Holiday Inn Batavia, NY	5:00 PM
04/08/13	Refrigeration Night		TBD	TBD
05/13/13	Annual ASHRAE Golf Outing and Picnic	---	Ravenwood Golf Club	9:30 AM Golf 4:30 - 8:00 Picnic

Updated 9/10/2012

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

Thank you! To everyone that attended the clambake last month at the Burgundy Basin. It's a nice way to kick-off our program year and reconnect with our peers after the summer. A big thank you to everyone that helped orchestrate the event as well!

Our meeting this month will be on **Tuesday October 9th**. We're trying a different day, in light of the Columbus Day holiday on the 8th. Rob (our Program Chair) has lined up a session with Dave Gordon of Green Building Partners to speak about the **Challenges in Applying Traditional Sensors in Ventilation Applications**.

ASHRAE is here for you – at the chapter level and the national level. The society is built with people like you – volunteers from every aspect of the HVAC&R industry. When you become a member you will become part of a **global network of HVAC&R** practitioners and will receive…the **ASHRAE Handbook**, **ASHRAE Journal**, **ASHRAE E-newsletters**, **Discounts** on ASHRAE publications, conferences, merchandise and have an opportunity to get involved at a chapter level.

Contact Bill Clark wjclark@dayasi.com if you are interested in learning more about membership opportunities.

Please visit our website at www.rochester.ashraechapters.org to see a list of officers and their contact information.

There is also info there on…**Upcoming Chapter Meetings** (with a pay online option), the interactive & searchable **Buyer's Guide** (list of Manufacturer Representatives and Products), monthly **Newsletters…**and much more. Anyone is welcome to contact me directly @ msommerman@nrg-concepts.com or 585-272-4650 with any ASHRAE chapter questions.

See you at the next meeting!
Some upcoming National ASHRAE sponsored events:

ASHRAE/NIST Refrigerants Conference
October 29-30, 2012 | Gaithersburg, Maryland
www.ashrae.org/refrigerants2012

7th International Cold Climate HVAC Conference
November 12-14, 2012 | Calgary, Alberta
www.ashrae.org/coldclimate

Annual Winter Conference and AHR Expo
January 28-30, 2013 | Dallas, Texas

Michelle Sommerman, PE, 2012-2013 President

Monthly Meeting

October ASHRAE Meeting (1 PDH will be available for attendees)

Tuesday October 9th 2012
Location: Mario's Italian Steakhouse 2740 Monroe Ave, Rochester
Time: 12 PM with Buffet Lunch Served
Cost: $25.00
Speaker: Dave Gordon, Green Building Partners, LLC.

Challenges in Applying Traditional Sensors in Ventilation Applications

David Gordon, formed Green Building Partners, LLC in December of 2010 to focus on energy and sustainability programs for green building owners and managers. As a spin- off of Indoor Air Professionals, Inc, which Gordon founded in 1993, GBP brings considerable experience and expertise especially in the areas of HVAC performance and indoor air quality.

Gordon has successfully developed and executed HVAC restoration, performance and indoor air quality projects for over 2,500 federal, state and private projects. Indoor air quality projects have satisfied requirements for LEED and New York State Executive Order 111, Green Building Tax Credit Section 638.7(d). In addition numerous IAQ testing and building / HVAC performance assessments have been performed in response to occupant complaints, energy conservation efforts, and proactively validating IAQ. Gordon is a LEED Green Associate and certified by the National Air Duct Cleaners Association (ASCS)

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

Remember, as an option, we now have on-line payments available via PayPal.

<< Pay for Meeting Registration online via PayPal (no PayPal account required) >>
Use the following link: http://rochester.ashraechapters.org/meetings.html

Please RSVP no later than noon Thursday, October 4th to Tim Duprey
Phone: 585.942.9360 or Email: tduprey@pascobas.com

Attention Members:

Just a reminder that all members that reserve a spot for the monthly meeting will be responsible for that reserved space.
Members have until 12:00 pm the day of the RSVP deadline to cancel their meeting reservation.
Failure to comply with this rule will result in the attendee being responsible for the payment of that reservation.

ASHRAE Rochester Chapter Officers

Respectfully,

Tim, Attendance Chair

Job Postings & Help Wanted

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

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, Michelle Sommerman (585.957.1942) or by email msommerman@nrg-concepts.com. This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

The Laboratory for Laser Energetics (LLE) at the University of Rochester is a unique national resource with the premier high-power laser facility for research in Inertial Confinement Fusion (ICF), High Energy Density Physics (HEDP) and Basic Science. The Laboratory is a key partner in the National Ignition Campaign (NIC) with the National Ignition Facility (NIF) where LLE scientists have been instrumental in the development of experimental techniques and diagnostics. LLE scientists collaborate with scientists at Lawrence Livermore and the other National Laboratories on the key science campaign leading to Ignition.
LLE is home to both the OMEGA and OMEGA EP laser systems. OMEGA is a 60-beam solid-state laser system capable of delivering 30kJ, nanosecond, UV pulses to a target. OMEGA EP is a short-pulse laser system capable of delivering up to 1PW intensities (700J in 700fs). Research is conducted for LLE, National Laboratories and Universities. Information regarding the Laboratory for Laser Energetics can be found at www.lle.rochester.edu. The University of Rochester is an equal opportunity employer.

FACILITY MANAGER
The Laboratory seeks an experienced candidate to manage a 300,000 sq. ft. state-of-the-art research complex. This includes responsibility for HVAC, electrical systems, facility modifications, capital projects, as well as general upkeep. Also supervises a staff of mechanics, electricians, custodians and contractors. The successful candidate must have knowledge of mechanical and electrical plant systems, be able to plan and manage preventive and corrective maintenance activities, and support the research staff with laboratory modifications. The successful candidate must have solid project management skills and the ability to clearly communicate with internal researchers, University facility counterparts, mechanic/electrical trades, and external vendors. Bachelor's degree in engineering and 5 years experience in similar experience is required. Professional Engineer certification is a plus.

Qualified candidates please send resumes to:
Human Resources Manager
University of Rochester/LLE
250 E. River Road
Rochester, NY 14623
email: jobs@lle.rochester.edu
fax to: 585-276-2420

UNIVERSITY of ROCHESTER

Technology Awards Programs

Program Overview

Overview:

Effective energy utilization is just one of several aspects of facility and building design. The ASHRAE Technology Awards program recognizes, on an international scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and good mechanical design. The purpose of the ASHRAE Technology Awards is threefold:

1) To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data.
2) To communicate innovative systems design to other ASHRAE members.
3) To highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Categories:

ASHRAE Technology Award applications are accepted in each of the following categories:

I. Commercial Buildings (New and Existing)
II. Institutional Buildings (New and Existing)
    - Educational Facilities
    - Other Institutional
III. Health Care Facilities (New and Existing)
IV. Industrial Facilities or Processes (New and Existing)
V. Public Assembly Facilities (New and Existing)
VI. Residential (New and Existing)

ASHRAE honors only buildings and industrial facilities or processes that are outstanding in design innovation. An award in a category is not given if entries do no meet the highest standards. The "ASHRAE Award of Engineering Excellence" is given at the judges' discretion. The first-place Society Technology Awards and the "ASHRAE Award of Engineering Excellence" are presented during the Plenary Session at ASHRAE's Winter Meeting.

ASHRAE Rochester Chapter

Please Visit www.ASHRAE.org Honors & Awards for more information or Contact: Derrick Day
Phone: 585-489-7502
E-mail: Derrick.W.Day@jci.com

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-CONDIONING 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: _____

Permanant 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 _____

I would like to particpate 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 ☐ Sophmore ☐ 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 intenrational locations and Canada, allow 7-10 business days from processing.

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.

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 _____ CVV 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.**

1791 Tullie Circle, NE
Atlanta, GA 30329
Phone: (404) 636-8400
www.ashrae.org/scholarships

UNDERGRADUATE SOCIETY SCHOLARSHIP APPLICATION

FOR OFFICE USE ONLY
___ Official Transcript ___ Reference Letters

PERSONAL DATA ***(Please type or print in ink)***

Last Name, First, MI | Preferred Telephone No. | E-mail

Student's Home Address

City | State | Country | Zip Code

Student's Campus Address

City | State | Country | Zip Code

Birthplace | Date of Birth | Citizenship

Spouse's Name | Occupation

Mother's Name | Occupation

Father's Name | Occupation

Address of Parent or Guardian

EDUCATION

High School | Location | Year of H.S. Graduation or GED

College or University Now Attending or Accepted to | Location | Major Program of Study

Cumulative Grade Point Average | What is the Base of the Cum. GPA at your School? (i.e. What number does "A" represent?)

No. of Terms to Complete College Degree (excluding current term) | Anticipated Month & Year of College Graduation

List below membership in professional or honorary societies/organizations, including office(s) held, if any

Society/Organization **Office**

1. _____

2. _____

3. _____

4. _____

PROFESSIONAL GOALS – What is your particular interest in the field covered by ASHRAE? Do you have a special interest in HVAC&R equipment or systems (i.e. installing, designing, testing, servicing, repairing, troubleshooting, teaching, etc)? *(Answer 100 words or less)*

_____

_____

_____

_____

_____

_____

_____

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_____

_____

_____

HVAC&R INVOLVEMENT: To what extent have you participated in HVAC&R activities to advance your above stated "goals"? *(Answer 100 words or less)*

_____

_____

_____

_____

_____

_____

_____

_____

Have you contacted the Student Activities Chair or officer at the ASHRAE chapter nearest you to learn about ASHRAE & how we can help you achieve your career goals? Visit http://www.ashrae.org/society-groups/chapters for a list of ASHRAE chapters and contacts.

YES ____ If yes, provide name of chapter contact & have him/her complete and submit the attached Evaluation Form by the application deadline to lbenedict@ashrae.org)

Name_____Phone & E-mail:_____

NO _____ If no, why not?_____

PROFESSIONAL DATA *(Supply a brief resume of your work experience in chronological order starting with the most recent))*

Job Title	Duties	Length of Employment	Salary

FINANCIAL NEED Why should we award this scholarship to you? Please justify financial need

*Are you currently receiving financial aid from ASHRAE or other source? _____ If yes, please describe.

EXTRACURRICULAR ACTIVITIES/HOBBIES

REFERENCES *(Please list three references – A personal letter of recommendation is required from each,* Visit www.ashrae.org/studentzone for a list of ASHRAE student branches.

1. Instructor or Faculty Advisor E-mail & Phone Number

2. Former or Current Employer (family member OK, if applicable) E-mail & Phone Number

3. Other (excluding family member) E-mail & Phone Number

For a list of scholarships and complete eligibility requirements, visit www.ashrae.org/scholarships

Scholarships are awarded based on the following and for the academic year following the application deadline beginning with the fall semester:

1. Full-time enrollment in an accredited undergraduate engineering or engineering technology program recognized by ASHRAE as listed for each scholarship (Note: enrollment in an architecture program accredited by the National Architectural Accrediting Board (NAAB) at a school located in North Carolina, South Carolina or Georgia is accepted for the Region IV/Benny Bootle Scholarship).
2. A cumulative grade point average (GPA) of at least 3.0 on a scale where 4.0 is the highest and/or a class standing of no less than the top 30% evidenced by an official transcript of grades or statement from a school administrator.
3. Three letters of recommendation, including an instructor or faculty advisor, a current or past employer, and another character reference. In the case of institutions with an ASHRAE student branch, a letter from the faculty advisor of that branch may be one of the three letters of recommendation.
4. Evaluation form completed & submitted by the Student Activities Chair or officer of nearest ASHRAE chapter following an interview with the applicant.
5. Potential service to the HVAC and/or refrigeration profession
6. Financial need
7. Leadership ability (activities, leadership roles, community service, etc.)
8. Work Ethics (summer jobs, part-time jobs, etc.)

IMPORTANT: Submit completed application with the following supporting documentation postmarked on or before the application deadline: *an official transcript of grades (if college grades are not available by the application deadline, submit high school transcript and verification of enrollment or letter of acceptance from a post-secondary educational institution), letters of recommendation (see above).* Transcripts must be mailed and reference letters must be signed. Re-applications accepted from former scholarship recipients and applicants provided they meet current criteria.

I believe all of the above information to be true and complete and I hereby apply to the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. for an ASHRAE Scholarship. I certify that I am not receiving full funding for my education from an employer, any branch of the Armed Services or other organization. I authorize ASHRAE to obtain and review my academic records (including but not limited to official transcripts). In signing below, I agree to hold ASHRAE harmless from any and all liability for damage, injury, or loss sustained by me in connection with this application, including but not limited to, the acquisition by ASHRAE of my academic records.

☐ I authorize ASHRAE to forward this application to an ASHRAE chapter in my area for possible consideration of local scholarship opportunities.

Date

Signature of Applicant

Signature of Parent or Guardian (if applicant is under 18 years of age)

ANNUAL APPLICATION DEADLINES:
December 1 for Undergraduate Engineering, Regional & University-specific Scholarships
May 1 for Undergraduate Engineering Technology & High School Senior Scholarships

Submit completed application package postmarked on or before the application deadline to:

Lois Benedict/Scholarship Administrator
ASHRAE
1791 Tullie Circle, NE, Atlanta, GA 30329
Phone: 404-636-8400 or 678-539-1120 (direct)
Fax: 678-539-2120 (direct)
lbenedict@ashrae.org

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS

ROCHESTER, NEW YORK CHAPTER

August 30, 2012

LOCATION: VP Supply Rochester, NY

President	Michelle Sommerman	X
President Elect/Program	Robert Wind	X
Vice President/Tech/Picnic Co-Chair	Ed Burns	X
Secretary	Christina Walter	X
Treasurer	Jeff Close	X
Immediate Past President/CRC	Jeff Ellis	
Attendance	Tim Duprey	X
Awards/Student Activities	Al Rodgers	
Buyers Guide	Chuck White	
Historian	Lee Loomis	X
Board of Gov. (3)	Eric Smith	X
Board of Gov. (3) Newsletter	Jaimee Wilson	X
Board of Gov. (2) Membeship	Bill Clark	X
Board of Gov. (2)	Beth Smith	X
Board of Gov. (1) Research	Paul Kenna	X
Board of Gov. (1) CTTC Chair	Derrick Day	X
Website	Kevin Wind	
Refrigeration	Michael Nohle	
Nominating / Picnic Co-Chair	Jim Browe	
Valentine's Dinner Dance	Jody M. McGarry	
YEA Chair	Chris Lukasiewicz	X
Education	Bill Murray	X
Publicity	Mark Kukla	

Meeting Minutes

Roll Call: The above noted individuals were present.

Call to Order: 12:19 pm

Minutes:

- **Previous Meeting Minutes -** Motion made and accepted to receive previous meeting minutes.

- **Treasurer's Report :** Jeff Close
  - Finalized the 'working' budget
  - Made an adjustment for ASHRAE Region I assessment (↑ $2,000)
  - Look into staging cd's on ASHRAE fund (consult Dave Hartman)
  - Should we have an investment committee?

- **Program/ Tech Session:** Rob Wind
  - Reviewed calendar outline for this year. Rob has ideas to fill the few empty slots (ie: Nov: Asbestos, plus joint meetings w/ SMACNA, ASPE).
  - March meeting in Batavia joint with Niagara Frontier Chapter (Buffalo) to hear/see Nat'l ASHRAE President, Tom Watson.
  - Reviewing ASHRAE's list of distinguished Lecturers as possible candidates and topics to present to our membership

- **Tech Awards:** Derrick Day
  - Requirements for Technology Awards will appear in the Newsletter.

- **Membership:** Bill Clark
  - 250 current Members, 7 newly joined this summer
  - CRC encouraged more on-line registrations

- **Attendance:** Tim Duprey
  - Mario's contract will be reviewed and signed by Tim D.
  - Email invites for Clambake are going out to membership.

- **Student Activities:** Al Rodgers not present.
  - Bill Murray working w/ RIT to finalize scholarships.

- **YEA:** Chris Lukasiewicz
  - YEA Tech Sessions to run October 4th- thru Nov.
  - Sessions are being increased from 5 meetings to now 8 meetings.

- **Research:** Paul Kenna
  - Paul to attend Research Promotion workshop in Chicago, Sept 8th.
  - Full Circle deadline October 15th (minimum $100 each).

- **Newsletter:** Jaimee Wilson
  - Possibly using business card advertisements in Newsletter. Funds would go to ASHRAE Research. All ads must be same size.

- Must not use active links in Buyer's Guide that will bring you to the customer's website. We can only provide link to customer's email.
- Recommended listing of books to go along with monthly meeting topic could be posted in the newsletter.
- September 20th is the October newsletter deadline.

➢ **Buyer's Guide:** Chuck White not present.
- No report

➢ **Historian:** Lee Loomis
- Received approval to display previous exhibits. Past President's history display will be set up at the Clambake for viewing.
- If you have any historical HVAC 'stuff' in your possession and you would like to share it with us, please contact Lee L.
- Please share if you have any new ideas for CRC exhibits that can be used for a history display (ie: old technology, old equipment).

➢ **New Business:**
- Get CRC expenses submitted to Jeff Close.

➢ **Old Business:**
- Chapter audit for previous year is complete (Chris Walter's term as treasurer 7/1/11 to 6/30/12).

➢ **Next Meeting:** October 5th, 12:00 PM at VP Supply

➢ The meeting was adjourned at 1:45 pm

WELCOME TO OUR NEW MEMBERS

Mr. Scott Edwards	Trane
Ms. Sarah Quinn	Pathfinder Engineers & Architects

2012-2013 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	244	0	0	0	200	0	100	300

Society News

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ASHRAE Assists College Students with Tuition through Scholarships

ATLANTA—To help support future generations of engineers, ASHRAE is awarding over $86,000 in scholarship money for the 2012-2013 school year.

"Engineers build our future, so we want to help build up future engineers," William Murphy, Ph.D., P.E., chair of the Scholarship Trustees, said. "Many of the ASHRAE scholarship recipients are already working in the industry part time and some are exploring careers in various areas of HVAC&R. We hope that this added exposure to the industry will lead to employment opportunities for them in the field during and after college."

The recipients of ASHRAE's scholarship assistance include the following:

- Reuben Trane Scholarship: $10,000 to be awarded over two years, Drew Miller, University of Nevada-Las Vegas, mechanical engineering and business management; Kody Jones, Oklahoma State University, mechanical engineering; and Paul Nelson, North Dakota State University, mechanical engineering. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.
- Willis H. Carrier Scholarships: $10,000 for one year Elizabeth McLean, Kettering University, mechanical engineering; and Patrick McGrail, Kansas State University, architectural 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.
- Frank M. Coda: $5,000 for one year, Jayson Bursill, University of British Columbia, 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, Julia Pollard, California Polytechnic State University-San Louis Obispo. The scholarship, new for the 2012-2013 school year, is awarded to a third-year student in a four-year undergraduate mechanical engineering program or a fourth-year student in a five-year undergraduate mechanical engineering program at Pennsylvania State University, Virginia Polytechnic Institute and State University or California State University at San Louis Obispo. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.

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

- Boggarm S. Setty Scholarship: Jared Levy, University of Maryland, mechanical engineering. This scholarship, new for the 2012-2013 school year, is awarded to an undergraduate engineering student attending an institution within ASHRAE Region III, which covers Delaware, Maryland, Pennsylvania, Virginia and Washington, D.C. An ASHRAE Fellow and a member of the Society since 1972, Setty has served on more than 50 technical committees for the society.
- Duane Hanson Scholarship: Cody Knuth, Kansas State University, architectural engineering. The scholarship was established by Gayner Engineers and is named for the company's former president.
- Alwin B. Newton Scholarship: John Heineken, Missouri University of Science and Technogloy, mechanical engineering. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- Henry Adams Scholarship: Alexander Pray, University of Colorado-Boulder, architectural 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.
- ASHRAE Region IV/Benny Bootle Scholarship: Lauren Bridgers, East Carolina University, mechanical engineering. The scholarship was established collaboratively by Region IV and Benny Bootle, a former Region IV director and regional chair on the ASHRAE Board of Directors.
- Donald E. Nichols Scholarship: Arturo de Jesus Santa Ruiz, Tennessee Technological University, mechanical engineering. The scholarship is awarded to a full-time undergraduate engineering student attending Tennessee Technological University. It is named for a former ASHRAE vice president and graduate of Tennessee Technological University.
- ASHRAE Memorial Scholarship: Joshua Kavanaugh, University of Alabama, mechanical engineering.
- ASHRAE General Scholarships: Yu Ho Kwok, University of Hong Kong, building services engineering; and Jingyu Lee, Illinois Institute of Technology, architectural engineering.
- Bachelor of Engineering Technology Scholarship: Yoginder Rana, Ferris State University, HVAC&R technology.
- High School Senior Scholarships: Jonathan Hankenhof, University of Cincinnati, mechanical/architectural engineering; and Katlyn McDermott, University of Missouri, mechanical engineering. The scholarships were established in 2010 for high school seniors entering their freshman year of college in an engineering or engineering technology program.

Over the course of 22 years ASHRAE has awarded over $1 million to approximately 250 deserving undergraduate and graduate students. For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2013-14 undergraduate, regional and university-specific scholarships. The deadline is Dec. 1, 2012.

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Alternative Low-GWP Refrigerants to be Presented at ASHRAE/NIST Refrigerants Conference

ATLANTA – Alternative low global warming potential (GWP) refrigerants will be presented at the ASHRAE/NIST 2012 Refrigerants Conference: "Moving toward Sustainability," Oct. 29 - 30, 2012, at the National Institute of Standards and Technology (NIST), Gaithersburg, Md. Papers from leading global experts will be presented on refrigerant alternatives and technologies, environmental effects of refrigerants, new refrigerant performance considerations and natural refrigerants. All papers at the conference are presented by invited speakers.

"The goal of the conference is to provide new information on the technologies, methods and means that will be used in the future to accommodate the imminent phase-down of high-GWP refrigerants," Piotr Domanski, conference co-chair, said. "International concerns about the impact of refrigerants on climate change inevitably lead to increased focus on refrigerants with a low GWP applied in high-efficiency systems. This includes a new generation of unsaturated fluorochemicals and the expanded use of 'natural' refrigerants."

Those involved in all the different aspects of refrigerants and refrigeration technology – policymakers, manufacturers, researchers and government officials – will receive an opportunity to learn about the latest developments and directions going forward.

A number of papers address the new generation of low-GWP fluorochemicals, including "Introduction to Alternatives for High-GWP HFC Refrigerants;" "Alternatives to High-GWP HFC Refrigerants" for air-conditioning, heating and refrigeration applications, chillers and residential and small commercial unitary; and "AHRI Low-GWP Alternative Refrigerant Evaluation Program" among others. Complete information on new low-GWP refrigerants according to ASHRAE designations, including blend compositions, will be presented.

Papers addressing risk assessments for applications with 2L refrigerants will include "Risk Assessment of Residential Heat Pump Systems Using 2L Flammable Refrigerants" and "2L Flammability Investigation and Risk Assessment Enables Automotive Industry Approval of HFO-1234yf." Papers on specific emerging refrigerants address "Environmental Impacts of HFO-1234yf and Other HFOs," "Thermal and Chemical Stability of HFOs" and "Thermophysical Properties, Heat Transfer, and Pressure Drop of HFOs."

A broad perspective on the expanded use of natural refrigerants are addressed in papers titled "Outlook for Natural Refrigerants," "Application of CO2 in Supermarkets in Europe" and "Ammonia."

Three opening keynote presentations will provide broad perspectives:

- James Calm, engineering consultant, Great Falls, Va., will speak on "Refrigerant Transitions…Again"
- Drusilla Hufford, U.S. Environmental Protection Agency, will address "Opportunities for Improved Climate Benefit under the Montreal Protocol"
- Dr. Steve Montzka, National Oceanic and Atmospheric Administration (NOAA), will address "HFCs in the Atmosphere: Concentrations, Emissions, Impacts."

In addition, the conference will feature panel discussions on "Global View on Refrigerant Preferences" and "Refrigeration and Air Conditioning in 2032."

Registration closes Oct. 18, and there will not be any onsite registration because of security requirements at the government facility.

For more information or to register, visit www.ashrae.org/refrigerants2012.

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New Guideline from ASHRAE Focuses on Smoke Control System Commissioning

ATLANTA – ASHRAE has added to its suite of commissioning guidance to ensure buildings and systems operate as intended with a new guideline on commissioning for smoke control systems.

Guideline 1.5-2012, The Commissioning Process for Smoke Control Systems, describes the technical requirements of the commissioning process described in ASHRAE's Guideline 0-2005, The Commissioning Process, to verify that the smoke control system achieves the owner's project requirements.

The guideline includes annexes that are based on actual project experience and current practice and illustrate application of the commissioning process for smoke control systems and components. It builds upon the concepts of Guideline 5, Commissioning Smoke Management System, and replaces it.

"Due to the integration and interdependency of systems, a performance problem in one system can result in less than optimal performance in others," Paul Turnbull, chair of the committee that wrote the guideline, said. "Although Guideline 1.5 focuses on smoke control systems, a successful building commissioning process validates the interoperability between all building systems. When smoke control is the primary focus of the commissioning process, coordination among disciplines is essential for success."

Other commissioning guidance from ASHRAE includes Guideline 0-2005, The Commissioning Process, which contains general requirements for the commissioning process of all building systems; and Guideline 1.1 -2007, HVAC&R Technical Requirements for the Commissioning Process, which contains specific requirements for commissioning HVAC&R systems in Guideline 0-2005 that are unique to HVAC&R systems.

ASHRAE first began developing formal guidelines for commissioning in 1982, looking at documenting best practices to achieve facilities that perform according to an owner's needs and requirements. Its original guideline on commissioning was published in 1989.

ASHRAE also is working on several other guidelines and a standard related to commissioning: Guideline 0.2P, The Commissioning Process for Existing Systems and Assemblies; Guideline 1.2P, The Commissioning Process for Existing HVAC&R Systems; Guideline 1.3P, Building Operation and Maintenance Training for the HVAC&R Commissioning Process; Guideline 1.4P, Systems Manual Preparation for the Commissioning Process; and Standard 202P, Commissioning Process for Buildings and Systems.

The cost of Guideline 1.5-2012, The Commissioning Process for Smoke Control Systems, is $54 ($46, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.

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Lighting Quality Requirements Proposed for Green Building Standard

ATLANTA – Lighting requirements to enhance productivity and comfort of occupants have been proposed for a green building standard from ASHRAE, the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES).

ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, provides a design standard for those who strive for high performance buildings. It covers key topical areas of site sustainability, water-use efficiency, energy ef¬ficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources.

Proposed addendum m would add lighting quality requirements to the scope of the Indoor Environmental Quality section of the standard. The proposed addendum is one of nine proposed changes to Standard 189.1 open for public review from Sept. 14 -Oct. 14, 2012. To comment on the proposed changes or for more information, visit www.ashrae.org/publicreviews.

"It has been clearly established that good lighting has a positive effect on the occupants of a building," Richard Heinisch, a member of the Standard 189.1 committee, said. "Or, looking at it from the opposite direction, when occupants are dissatisfied with their lighting, this can increase absenteeism and employee turnover which, in turn, decreases the sustainability of the enterprise. Any building, and particularly a high-performance building, should address issues of lighting quality (including visual acuity, task performance, visual comfort, health, safety and aesthetic judgment) so as to enhance the comfort and productivity of its occupants."

This particular addendum addresses a subset of the lighting quality issues with the expectation that future addenda will be developed to address remaining issues. Subsections 8.3.6.1 and 8.3.6.2 require that the occupants of certain space types be given some level of control over the light levels in that space. As pointed out in the foreword of the proposal, citing a research study on the effects of lighting on office workers: "Normally, the persistence and vigilance of office workers will decline over the course of a workday. However, the presence of personal control of their lighting increased subject motivation allowing workers to sustain their performance—they persisted longer on difficult tasks and were more accurate on a task requiring sustained attention."

A proposed third section, 8.3.6.2.1, ensures that certain media, such as whiteboards, are more likely to be properly illuminated by requiring separate lighting and lighting control for these surfaces, independent from the general lighting and control in the space.

The other addenda open for public review are:

- Addendum h, which clarifies the requirements for a continuous air barrier in Section 7 (Energy Efficiency) as well as the requirements for airtightness commissioning in Section 10 (Construction Plans for Operation).
- Addendum i, which modifies the climate zones to which the heat island section 5.3.2.3 (Roofs) applies.
- Addendum j, which clarifies shading provided by vegetation for the site hardscape and walls for heat island mitigation (5.3.2.1 Heat Island and 5.3.2.2 Walls).
- Addendum k, which updates the Section 7.4.3.7 (Variable-Speed Fan Control for Commercial Kitchen Hoods) to reference the language in ASHRAE/ANSI/IES Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings.
- Addendum l, which adds Table C-17 to include the minimum transformer efficiencies for building designs following path B of Section 7.4.3.1 (Minimum Equipment Efficiencies).
- Addendum o, which adds a new mandatory provision to Section 9 (The Building's Impact on the Atmosphere, Materials, and Resources), establishing maximum mercury content levels for certain types of electric lamps.
- Addendum p, which removes the "Acceptance Testing" provision in Section 10.3.1.1 (Building Acceptance Testing) for small buildings.
- Addendum q, which clarifies that system commissioning must include commissioning of the associated control systems.
- Addendum s, which clarifies the requirements for outdoor airflow monitoring in Section 8 (Indoor Environmental Quality), along with operational requirements for such monitoring in Section 10 (Construction and Plans for Operation).

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Additional Combustion Safety Testing Options Proposed for ASHRAE Residential IAQ Standard

ATLANTA – Additional methods to demonstrate combustion safety – an area of major concern for homes in weatherization programs – are being proposed for ASHRAE's residential indoor air quality standard.

ANSI/ASHRAE Standard 62.2-2010, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in low-rise residential buildings.

Three proposed addenda to Standard 62.2-2010 currently are open for public review. For more information, visit www.ashrae.org/publicreviews.

Standard 62.2 currently has limits on exhaust that are based on specific assumptions about the house, specifically that the house is fairly tight. Proposed addendum w would provide professionals working in existing homes additional methods to demonstrate combustion safety, according to Paul Francisco, vice chair the Standard 62.2 committee. This addendum allows users to consider the attributes of the actual house when assessing combustion safety to determine whether there are conditions for sufficient depressurization to cause spillage of backdrafting of a combustion appliance. This is typically an issue for atmospherically-vented appliances, usually caused by some combination of excessive exhaust, duct leakage and door closures that cause pressure imbalances.

"Combustion safety is a major issue for weatherization programs that are using Standard 62.2," Francisco said. "The majority of homes in those programs are leakier than the assumed leakage in the current 62.2 exhaust flow limit, even after retrofit. The current limit in 62.2 can prescriptively preclude them from using an exhaust option even though from a performance standpoint there would not be a problem."

A secondary impact is that addendum w makes it clear that existing combustion appliances do not need to be brought up to current code as a minimum requirement of 62.2, while reinforcing that any new installations must be to code.

"The issue of bringing appliances up to code is also an issue for weatherization programs," Francisco said. "There are many appliances installed that operate satisfactorily despite not being installed to the latest code. With the limited budgets of retrofit programs, as well as rules in some programs prohibiting spending these limited dollars bringing existing appliances up to code unless there is a demonstrated active concern, making it clear that it is a not a mandatory requirement of 62.2 makes it easier for these programs to fully adopt 62.2 while still delivering a final result that is safe for the residents."

One other addendum is open for public review from Sept. 14 until Oct. 14, 2012. The Standard 62.2 committee received comments from users of the standard, especially on addendum n, who did not understand which height was to be used when calculating the Normalized Leakage. Proposed addendum v would clarify the intent of the standard on how to calculate the building height.

Also open for public review from Sept. 14 until Oct. 29 is addendum u, which simplifies compliance with the intermittent ventilation requirements of Section 4.5 if the duty cycle is three hours or less. Under the current wording, designers of intermittent systems had to calculate a ventilation effectiveness factor even if operating the system 90 percent of the time with a duty cycle of one hour. This proposed addendum returns to the three hour maximum duty cycle from earlier editions of 62.2 before the ventilation effectiveness factor must be reduced below 1.0. This will simplify compliance for 80 percent of the users of 62.2. It also addresses the use of two or more fans to provide the required ventilation rate.

For more information, visit www.ashrae.org/publicreviews.

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