

ASHRAE Rochester



VOLUME 9, ISSUE 7

MARCH 2015

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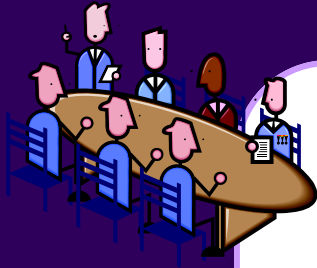
Join us at

ASHRAE's 2015 Annual Conference

June 27—July 1
Atlanta, Georgia



(refer to page 20)



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Buyer's Guide

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ASHRAE 2014-2015 Meeting Schedule				
Date	Event	pdh / Theme	Location	Schedule
03/09/15	How to use Classroom Airhandlers with S12.60 to meet RC25 Classroom Design for Intelligently Quiet Schools Mr. Kevin McGachy Systemair ChangeAir	Available Membership Promotion	Mario's	12:00 PM
04/06/15	Ethical Decision Making Barry Benator, PE, CEM - Benator, Inc. ASHRAE Distinguished Lecturer	Available	Mario's	11:00 AM
05/11/15	Annual ASHRAE Golf Outing and Picnic	---	Ravenwood Golf Club	9:30 AM Golf 4:30 - 8:00 Picnic

2014-2015 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	238	275	0	165	0	0	0	440

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

Greetings,

I hope everyone is staying warm and digging out from all this snow!

Our February meeting consisted of Air Flow Measurement for improved IAQ and Building Pressure Control. I want to say thank you to Mr. Jim Riendeau, Vice President of Ebtron & Board of Governors member Tom Streber for putting this program together for us.

Also this month we had our 58th annual Valentine's Day Dinner Dance held at the Colgate Rochester Crozer Divinity School, hosted by Matt and Jody McGarry of ABR Wholesalers. Matt and Jody have been hosting this event for close to 25 years. A special thank you goes out to them for all their hard work on this event throughout the years. It is always a wonderful event. At this event our awards chair person Mr. Al Rogers had the honor of presenting the Realto E. Cherne award to Mr. Jim Browe of RF Peck. This award is presented to a member who has attained distinction in their field of HVAC&R and educating others in the allied arts and sciences through teaching, research, invention, design and/or supervision of projects of unusual or important scopes. Congratulations Jim!

Coming up at our future meetings will be the following:

- March is the subject of How to use Classroom Air handlers with S12.60 to meet RC25 Classroom Design for Intelligently Quiet Schools, Presented by Mr. Kevin McGachy Systemair Change'Air.
- April will consist of Ethical Decision Making, Presented by Barry Benator, PE, CEM of Benator, Inc. Mr. Benator is an ASHRAE Distinguished Lecturer and we look forward to his program.
- May is our Annual ASHRAE Golf outing and Picnic at the Ravenwood Golf Club.

Please consider joining us at these meetings as we expect great attendance and as always there are PDH opportunities there.

The nominating committee has been set and we will be nominating 2 new Board of Governors and one new officer. The nominating committee will have the nominations this month and the elections will take place in April or May.

Please check out our chapter website at www.rochester.ashraechapters.org or if facebook is your preferred method of communication take a moment to "like" us www.facebook.com/#!/ashraerochester

Edward J. Burns
Rochester ASHRAE President



Ed Burns, 2014-2015 President

ASHRAE March Meeting Info

March ASHRAE Meeting

- Date:** Monday, March 9, 2015
Location: Mario's Italian Restaurant
Time: 12:00 PM
Cost: \$25
Speaker: Mr. Kevin McGachy, Systemair Change'Air
- Topic:** How to use Classroom Air-handlers with S12.60 to meet RC25 - Classroom Design for Intelligently Quiet Schools
Note: 1 PDH Approved

Please RSVP by noon Thursday, March 5th to
Tim Duprey tim.duprey@pres-services.com

Like us on Facebook!



Visit our new Facebook page by searching for "ASHRAE 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.



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, Ed Burns 585-739-7548 or by email ejb@mechtechvac.com.

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

Plumbing/Fire Protection Engineers

M/E Engineering, P.C., Upstate NY's leading Mechanical and Electrical consulting engineering firm is seeking a talented and enthusiastic Plumbing/Fire Protection Project Engineer and Senior Engineer in our Rochester Office.



**Mechanical/Electrical
Engineering Consultants**

Qualifications/Experience:

Project Engineer:
BS or BT Mechanical Engineering
4-8 years experience

Senior Engineer:
BS or BT Mechanical Engineering
10-20 years experience

*Salary commensurate with
experience and education.
M/E provides a competitive benefits package.*

Submit your Resume and Cover Letter online at
<http://www.meengineering.com/careers/>
Click on the Application Invitation to Self Identify
OR mail your resume to M/E Engineering, P.C.,
150 North Chestnut Street, Rochester, NY 14604
Attn: Candice J. Schneggenburger

*M/E Engineering, P.C. is committed to leveraging the talent of a diverse workforce to
create great opportunities for our business and our people.
EOE/AA. Minority/Female/Disability/Vet
M/E Engineering is not able to sponsor H1B Candidates at this time.*

Value-driven solutions.

Outside Sales Engineer Wanted

H&V Equipment Sales, Inc. a manufactures representative for applied HVAC equipment is seeking a motivated salesperson to help expand its market presence in Western and Central NY. Responsibilities will be working with local mechanical contractors in the plan/spec and design/build markets, providing quotations for equipment, generating submittals and sales orders. Candidates should poses a thorough knowledge of Mechanical HVAC systems, have good communication, sales and computer skills, and be willing to travel within the sales territory.

Other skills considered favorable to the applicant are actual HVAC field installation, service, HVAC design experience and/or HVAC sales experience.

Please email resume to Thomas Snyder at tsnyder@hvgroup.us

H&V Equipment Sales, Inc. is a division of H&V Group.

Rochester Chapter Committee Chairs Updates

CTTC / Programs

Technology Awards

The deadline for Chapter level ASHRAE Technology Awards is fast approaching. ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation.

Awards are presented in six categories for new and existing facilities and are judged on the merits of Energy Efficiency, IAQ and Thermal Comfort, Innovation, Operation and Maintenance, Cost Effectiveness, Environmental Impact and Quality of Presentation.

Chapter level award applications require only a one page application, a schematic and a short narrative.

First place winners in each of the six categories at the chapter level will be submitted for judging in the regional awards competition.

Awards are intended for built projects and as such must have been occupied prior to September 1st, 2014 to be eligible.

The following link includes additional details about the awards program:

<https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview>

Please consider representing the Rochester Chapter of ASHRAE by submitting your project to the chapter for consideration before **April 1, 2015**. Email Jeff Wiedrick at jwiedrick@bergmannpc.com with any questions, to receive an application form, for a sample application or any other concerns.

Young Engineers of ASHRAE (YEA)

Explorer's post with YEA

Our Rochester ASHRAE chapter and YEA are looking for volunteers to help with an Explorers Post. We are assembling a group of us to donate some time with local high school students. This program is an excellent opportunity for kids with interest in science and technology to spend time in different career fields. The intent is to allow these students to try out several potential career paths to investigate their interests. Our Explorer's program will expose the students to different disciplines within the HVAC industry to help gain exposure to our industry for future generations. Please contact Ed Burns or Matt Kremers mkremers@mcsmms.com if you are interested.

YEA Award of Individual Excellence

For more information on the award and how to submit, please contact Matt Kremers at mkremers@mcsmms.com.

Membership

ASHRAE Rochester Chapter- Membership Promotion

Please remember to take a few minutes 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



Shaping Tomorrow's
Built Environment Today

Student Membership Application

What You'll Get With Your ASHRAE Student Membership!

What's "Cool" In ASHRAE

- ASHRAE maintains standards for indoor air quality
- 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 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
- Discounted 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/studentbookstore 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 SmartStart Program. The SmartStart program locks in the price of student dues for the first year of membership after graduation.

Visit www.ashrae.org/students
to join online!



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/privacypolicy.

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
 R. Research/Development Engineer
 S. 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 I-P 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 \$199)

Student Member Price: \$49.00 USD \$ _____ USD

CD Only: \$39.00 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 _____ 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.**

58th Annual ASHRAE Valentine Dinner Dance

On Friday, February 6, 2015, ASHRAE hosted their 58th annual Valentine Dinner Dance. This year's event, held at the Colgate Rochester Crozer Divinity School, was an evening filled with great music, delicious food, and lots of fun! Allan Howe and Friends provided the perfect soundtrack to compliment the elegance of the Divinity School, and the 80 guests enjoyed a delicious dinner by Special Events Catering, and decadent desserts by Sweet Creations. A big thank-you goes out to our 20 corporate sponsors that made this event possible, and of course, thank you to Jody and Matt McGarry for organizing another extraordinary event! See you next year!

2015 VDD SPONSORS

GOLD LEVEL:

Gray Metal Products, Inc.
Mech Tech HVAC, Inc.

SPONSORS:

ABR Wholesalers, Inc.
American Metal Products
Bergmann Associates
Crosby-Brownlie, Inc.
Day Automation Systems
Guckian Energy Systems, LLC
IBC Engineering, P.C.
Kenron Industrial Air Conditioning, Inc.
LaBella Associates, D.P.C.
M/E Engineering, P.C.
Monroe Piping & Sheet Metal, LLC
Postler & Jaeckle Corp.
PRES Energy
R.F. Peck Co., Inc.
R.L. Kistler, Inc.
R.P. Fedder Corporation
Trane
Upstate Systems, Inc.

Board of Governors Meeting Minutes



BOARD OF GOVERNORS MEETING MINUTES

Meeting Date:

Friday, February 6, 2015

Location:

Carrier Office, Rochester, NY

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

Board of Governors Meeting Minutes

Roll Call: The above noted individuals were present.

Call to Order: 7:30am

Meeting Minutes:

- **Program** – Chris Walter
 - Reviewed program for the rest of the year.
 - Speaker to be in town Sunday.
 - Tom Streber is backup speaker if needed.
 - We need a backup presentation on a flash drive for emergencies.

- **Treasurer** – Bill Clark
 - Tax return extension was filed.
 - MCC Accountants are preparing the tax return this year.
 - Money to be transferred out of PayPal to cover remaining meeting expenses for the year.

- **CTTC** – Jeff Wiedrick
 - A letter has been placed in the news letter asking for possible projects that may be submitted for awards but there has been no response.
 - Jeff has asked people in his office and Bergman will have one project to submit.
 - An email to be sent out to the membership with a sample application to encourage participation.

- **Membership** – Jake Hall (Not present)
 - 10 new members
 - 235 members currently
 - Down 4 members total
 - 525 PAOE points so far

- **Student Activities** – Chris Lukasiewicz (Not present)
 - No report

- **Education** – Bill Murray
 - All remaining meetings with PDHs the PDHs have been approved or are in the approval process now.
 - ASHRAE can manage the scholarship fund and provide a guaranteed 5% return to give out scholarships each year.
 - The issue is student engagement from ASHRAE.
 - We need a teacher or teachers that can help promote membership to students.
 - Discussion of forming a sub-committee for student engagement.

Board of Governors Meeting Minutes

- **YEA** – Matt Kremers
 - Steam education meeting at Modular Comfort in early March.
 - Explorers post meeting will be rescheduled. A post for next year is more likely than this year.
- **Awards** – Al Rodgers (Not present)
 - Al has the award for Jim Browe and will present it at an upcoming event.
- **Resource Promotion** – Paul Kenna
 - No update on promotions, promotions are on track for this year.
 - Paul to look into ASHRAE Scholarship fund management.
- **Refrigeration** – Mike Nohle (Not present)
 - No report.
- **Chapter Tech Energy & Govt Activities** – Tom Burke (Not present)
 - No report.
- **Newsletter** – Scott Edwards
 - Newsletter has been completed and needs to be distributed to membership.
 - Add for NYSERDA workshop to be placed in newsletter.
- **Buyers Guide** – Stephanie Dempsey (Not present)
 - No report.
- **Attendance** – Tim Duprey
 - 46 individuals took the tour at RIT.
- **Historian** – Lee Loomis (Not present)
 - No report.
- **Publicity** – Mark Kukla (Not present)
 - No report
- **Nominating** – Michelle Sommerman (Not present)
 - Progression of new chair members needs to be reviewed.
 - Potential candidates for 2015-16 have been identified.
- **CRC 2016** – Jim Browe
 - Dates for event are August 18-20, 2016 at the Hyatt in Rochester.
 - Jim Browe has a budget for the CRC.
- **Old Business**
 - RES Symposium – speakers for all 3 sessions have been found.

Board of Governors Meeting Minutes

- Scholarship updates – Bill Murray has been in contact with RIT and most of the contacts have changed and Bill has been contacting the new people so we can award scholarships to RIT students.
- Next BOG Meeting Friday March 6, 2015 @ 7:30 am @ Carrier Corp, Humboldt St

Meeting adjourned at 8:45 am.

2015 Annual Engineering Symposium in Rochester

Earn up to 7 pdh's

Sponsored by

Rochester's Technical and Engineering Societies and RIT

Wednesday, April 29th 2015

Courses available in:

Civil, Electrical, Lighting, Mechanical, HVAC, Plumbing

Radisson Hotel Rochester Riverside

120 East Main Street, Rochester NY

Time: 7:30 am to 6:30 pm

\$130 Advance Registration

\$20 Student Registration

\$160 AFTER March 31, 2015 and at the door

**For more information and to register please visit
www.engineeringsymposiumrochester.com**

15-Jan-15

2015 ENGINEERING SYMPOSIUM IN ROCHESTER

Sponsored by
Rochester's Technical and Engineering Societies
April 29, 2015

PDH hours will be acceptable in New York State. Schedule subject to change.

Registration and Continental Breakfast						
Welcoming Remarks: Chris Devries, Chair of the 2015 ESR Committee						
	Civil Engineering Sponsored by ASCE	Civil Engineering Sponsored by ASCE	Mechanical Engineering Sponsored by ASME	Electrical Sponsored by IEEE	Mechanical, Plumbing, & Fire Protection Sponsored by ASHRAE and ASPE	Lighting and Power Sponsored by Elect. Assoc. of W N Y
Room	Riverview	Douglas	Fitzhugh	Eastman	Silver	Gleason
Host	Jim Baker	Kip Finley	Ron Salzman	Dave Krispinsky	Jennifer Wengender	Joe Dombrowski
8:15 to 8:30 8:30 to 8:45	Lago Casino Site Analysis and Design <i>Peter Vars</i>	Geotechnical - Piles <i>Wendel Armstrong</i>	Engineering Disasters: A Hazardous Materials Management Perspective <i>Richard Cartwright</i>	Audio Engineering 4. Dr. Sung Young Kim	NYS Building Codes and the use of Referenced Standards <i>Andy Taylor</i>	RESTRAINING AND ISOLATING ROOF TOP EQUIPMENT-PER NEW YORK STATE BUILDING CODE AND ASCE 7-05 DICK SHERREN
Break						
9:30 to 9:45 9:45 to 10:45	Planning Around Critical Water System Component Downtime <i>Clem Chung</i>	THM Removal – Small System Applications <i>Tom Clark</i>	Science and Technology at the Laboratory for Laser Energetics <i>Steven Ivanco</i>	RIT's Micro Grid system in the Golsano Sustainability Building 2. Dr. Christopher Piggot	Coordination of Building Storm water discharge with on-site Disposal Regulations <i>David Johnson</i>	ZONE SELECTIVE INTERLOCKING <i>BRENT VILD</i>
Break						
10:45 to 11:00 11:00 to 12:00	Civic Center Green Roof <i>Jim Krapf</i>	Air Transport Engineering foundations of operational Safety <i>Fred White</i>	Particle Control with Holographic Optical Tweezers <i>L. Lindley</i>	Software Defined Radio Dr. Miguel Bazdresch	Case Study: East Irondequoit CSD Cogeneration system <i>Dave Hart, PE</i>	READING TIME CURRENT CURVES <i>JOHN KOWAL</i>
Lunch and Keynote Program Ethics for Engineers <i>Peter DeMarco -Priority Thinking</i>						
	Civil Engineering Sponsored by ASCE	Civil Engineering Sponsored by NYSATE	Mechanical Engineering Sponsored by ASME	Electrical Sponsored by IEEE	Mechanical, Plumbing, & Fire Protection Sponsored by ASHRAE and ASPE	Lighting and Power Sponsored by IES Rochester
Room	Riverview	Douglas	Fitzhugh	Eastman	Silver	Gleason
Host	Erin McCormick	Paul Presutti	Bill Bishop	Dave Krispinsky	Michelle Sommerman	Joe Dombrowski
12:00 to 1:30	TBA	Access 360 Structural Lifting <i>Howard Ressel, Chris Bayer</i>	Additive Manufacturing <i>Denis Cormier</i>	Vehicular Collision Avoidance System 3. Dr. Clark Hochgraf	Natorium Design <i>Jordan Danuiw</i>	SCADA SYSTEMS MIKE MCGRATH
Break						
1:30 to 2:45 2:45 to 3:45	Geotechnical Analysis and Construction of New Maid of the Mist Drydocks in the Niagara River Gorge <i>Mike Mann</i>	Aerial Project – Transforming the Middle Gorge of the Genesee River <i>Michael Phillipson</i>	Human Contributions to Global Warming Part 1 <i>Bill Bishop</i>	GE diesel locomotives 1. Dr. Shola Olabisi	Energy Modeling and Analysis (for existing buildings) <i>Erik Durka</i>	LED Lighting <i>Mike Trippe</i>
Break						
3:45 to 4:00 4:00 to 5:00	Design Build Roundtable Lessons Learned <i>Various Presenters</i>	Cost Effective Engineering Techniques for Environmental Benefits <i>Sarah Piecuch</i>	Human Contributions to Global Warming Part 2 <i>Bill Bishop</i>	Electrical/Mechanical Product Safety Compliance (Speaker TBA)	VRF Applications <i>Marty Brinton</i>	Lighting Controls And Energy Codes <i>Brian Horner</i>
Cocktails and Conversation in the Lounge						
5:00 to 7:00						



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.



2015 ASHRAE PICNIC SPONSORSHIP FORM

Monday, May 11, 2015

 <p>RAVENWOOD GOLF CLUB</p>		
<p>Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 11:00 AM – 4:30 PM - Golf 4:30 PM - 8:00 PM - Picnic</p>	<p>Picnic: 4:30 PM-8:00 PM 4:30 PM - 6:00 PM Cocktails and Hors d'oeuvres 6:00 PM - 8:00 PM Dinner Catered By: Dinosaur Barbeque at Ravenwood Golf Club</p>	<p>Thank you in advanced for supporting this long standing Rochester ASHRAE Chapter tradition.</p>
		

Please include check (on notes put what sponsorship you made) and make payable to: ASHRAE Rochester Chapter and mail to:

Attention: Kacie Hoffman
RF Peck Company, Inc.
889 Atlantic Ave.
Rochester, NY 14609

Any questions, call Kacie at (585) 697-0836 ext. 105
Email: khoffman@rfpeck.com

Please fill out so we can correctly recognize you or your company:

Company Name: _____

OR

Individual Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (Work) _____ (Home) _____

Sponsorship Form

Sponsorship Name	X here for Sponsorship	Sponsorship Amt.
Major Door Prize Sponsor – Gift/Item or Cash Donation- \$200 or more.		
Gold - \$250.00 - Hole Sponsorship and Recognition at Picnic		\$250.00
Silver - \$150.00 - Hole Sponsorship		\$150.00
Bronze - \$100.00 - Recognition at Picnic		\$100.00
Prize Sponsor - \$175.00 - Longest Drive		\$175.00
Prize Sponsor - \$175.00 - Closest to Pin		\$175.00
Total Check Amount:		



MONDAY, MAY 11, 2015
ASHRAE Picnic / Golf Tournament
To be held at
Ravenwood Golf Course

Reservation Deadline is... May 1st, 2015
 (There is a limited amount of tickets this year on a first come basis)

 RAVENWOOD GOLF CLUB		
<p align="center">Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 Golf Registration 9:30 – 10:45 Juice, Scones and Coffee Served 11:00 am - Shotgun Start</p>	<p align="center"><u>Picnic: 4:30 PM-8:00 PM</u> 4:30 PM - 6:00 PM Cocktails and Hors d'oeuvres 6:00 PM - 8:00 PM Dinner Catered By: Dinosaur Barbeque at Ravenwood Golf Club</p>	<p align="center"><i>Four Man Scramble and Optional Skins Game.</i></p> <p><u>Golf includes:</u></p> <ul style="list-style-type: none"> ➤ Golf ➤ Cart ➤ Driving Range ➤ Prizes ➤ On course beverages and food at the turn



**NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR!
 TICKETS WILL BE MAILED TO YOU OR CAN BE PICKED UP AT
 THE R.F. PECK CO., INC.**

*Please include check and make payable to:
 "ASHRAE – Rochester Chapter"*

Return this form....
 Mail prior to **May 1, 2015** to:
 Attention: Kacie Hoffman
 R.F. Peck Co., Inc.
 889 Atlantic Avenue
 Rochester, New York 14609
 Any questions, call (585) 697-0839 ext. 105
 Email: khoffman@rfpeck.com

Address where you would like your picnic tickets sent to:
 Company: _____
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: (Work) _____ (Home) _____

Entry Form			
Ticket Request Form			
Event	Fee Amount	No. Attending	Total
Golf	\$90.00		\$
Picnic	\$50.00		\$
OR:			
Golf and Picnic (SAVE \$10.00)	\$130.00		\$

ASHRAE 2015 Annual Conference
June 27-July 1, 2015
Atlanta, Georgia



ASHRAE has a warm southern welcome as the 2015 Annual Conference comes to the Society's hometown of Atlanta, Ga. It's been nearly 15 years since the last time ASHRAE hosted a conference here. And while the city and the Society have grown and changed, the hospitality remains the same. We look forward to seeing y'all!

Airline Transportation - Discounted Airfares for ASHRAE



Delta Air Lines is pleased to offer special discounted airfares for ASHRAE

To take advantage of these discounts, follow these steps:

Click on www.delta.com/booking and enter Meeting Event code NMKBW then continue with online booking process.

Or you can call Delta Meeting Network@ reservations at 1-800-328-1111**, Monday - Friday, 7:30 a.m. - 7:30 p.m. (CT) and refer to File Meeting Code (new code will be posted soon).

**\$25 service fee for booking via 1-800 phone number

[https://www.ashrae.org/membership--conferences/
conferences/2014-ashrae-annual-conference](https://www.ashrae.org/membership--conferences/conferences/2014-ashrae-annual-conference)

Registration

Registration Opens March 1

✓ Early bird fees from March 1 through April 26

- \$425, member/\$635, non-member
- \$400, first-time member attendee/\$610, first time non-member attendee
- \$115, Life Members

Advanced fees from April 27 through June 7

- \$450, member/\$660, non-member
- \$425, first-time member attendee/\$635, first-time non-member attendee
- \$125, Life Member

Full registration fees from June 8 through June 27

- \$580, member/\$780, non-member
- \$555, first-time member attendee/\$755, first-time non-member attendee
- \$135, Life Member

Registration fees for speakers, student branch advisors and students

- \$115, speaker
- \$25, student branch advisor
- \$25, student member/\$55, full-time student non-member

Keynote Speaker

✓ Legendary NASA Flight Control Director Who Led the Effort to Save *Apollo 13*

Gene Kranz is the keynote speaker at the opening Plenary Session, held Saturday, June 27. Registration is not required to attend the Session, which also features the Honors and Awards program.

As the leader of the "Tiger Team" of flight directors who brought the Apollo 13 spaceship safely back to Earth on April 17, 1970, Kranz demonstrated extraordinary courage and heroism.

Commissioned into the US Air Force in 1954, Kranz flew high-performance jet fighter aircraft and was a flight test engineer on early jet bomber development. In 1960, Kranz joined the NASA Space Task Group at Langley, Virginia, as a flight controller on Project Mercury. He served as flight director for the 33 missions of Projects *Gemini*, *Apollo*, and *Skylab*, and led the flight control team during the first lunar landing.

Kranz retired from NASA in 1994 after 37 years of federal service, and is currently a consultant and speaker. The hit film *Apollo 13* chronicles Kranz's struggle to devise the plan that would safely bring the ship and its crew of three astronauts home after its oxygen system failed. Actor Ed Harris portrays Kranz in the film, which was directed by Ron Howard.

Kranz was a co-recipient of the Presidential Medal of Freedom awarded by President Nixon for the Apollo 13 mission, and was designated a Distinguished Member of the Senior Executive Service by President Reagan.

Since his retirement from NASA, Kranz has served as a flight engineer on a B-17 "Flying Fortress," constructed an aerobatic biplane, and published a *New York Times* best-selling memoir about his experiences in the space program. His book, *Failure is Not an Option: Mission Control from Mercury to Apollo 13 and Beyond*, was selected by The History Channel as the basis for a documentary on Mission Control.

Stay Tuned for more details!



Planning your Chapter's Event Calendar?

Well, We've got April Covered!

Register your Chapter to view the 2015 ASHRAE Webcast at www.ashrae.org/webcast. Registration begins on March 23, 2015. Add lunch, a speaker, or even a product show and make it a full-day event.

- **Attend a live, interactive, educational program.** This **FREE** webcast will feature industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff, and overall ownership costs
- Chapter members and other attendees at your event may earn **3 Professional Development Hours (PDHs)** by completing the online Participant Reaction Form by May 8, 2015
- The webcast has been approved for **3 GBCI Continuing Education (CE) Hours** and **3 AIA Learning Units (LU)**
- Chapters who register to view the webcast will earn **100 PAOE points**



Promote the Webcast

Use the flyer and article in the online [Media Kit](#) to promote the webcast viewing at your Chapter event in your newsletter and on your webpage. We will also be sending the Chapter Presidents and Chapter CTTC Chairs hard copies of the Webcast Guide to promote the program at work, with other organizations, and of course, at your Chapter meetings. Please email ashrae-webcast@ashrae.org to request additional copies.

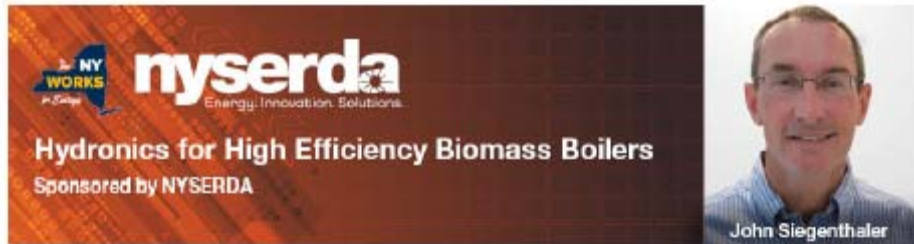
Need more information?

If you have questions about the webcast, call 678-539-1200 or email ashrae-webcast@ashrae.org.

For more information about the program, continuing education credits, speakers, registration, and Existing Building Commissioning resources visit us online at www.ashrae.org/webcast.

NOT ABLE TO WATCH THE LIVE WEBCAST ON APRIL 23?

Not a problem! Register your Chapter and view the Webcast online between April 23rd and May 8th. PAOE points and continuing education credits are also available for the Webcast On Demand. Visit www.ashrae.org/webcast for details.



This full day design-focused workshop examines best practices for combining modern, high efficiency wood-fueled boilers with hydronic distribution systems. It covers the operating characteristics of wood-gasification boilers, pellet-fired boilers, and the latest hydronic heating technology that complements these high efficiency heat sources. The hydronic topics discussed include low temperature heat emitters, high efficiency circulators, modern control techniques, and optimal use of thermal storage. The workshop culminates with several examples of how to combine these heat sources and distribution techniques into stable, efficient, and reliable systems.

If you plan to be involved in designing or installing high efficiency wood-based biomass heating systems, this workshop will present a wide range of design details that will help optimize the performance your systems deliver.

This workshop is required for installers who want to participate in NYSERDA's Renewable Heat NY program. This program currently has \$20 million allocated for promoting the use of high efficiency / low emission biomass boilers within New York State, in both residential and commercial applications. Additional information on the Renewable Heat NY program is available at <http://www.nyserda.ny.gov/renewableheatny>.

This workshop is approved for 7 AIA and 3.5 BPI hour credits. AIA learning hours can be used to meet Professional Development Hour (PDH) requirements for NYS licensed engineers

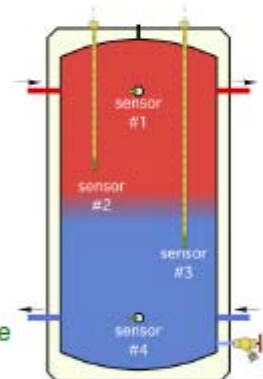
Here is the current 2015 Training Schedule:

Thursday, February 19, 2015
 8:00 AM - 5:00 PM
 Burgundy Basin
 1361 Marsh Road
 Pittsford, New York 14534

Wednesday, April 8, 2015
 8:00 AM - 5:00 PM
 Holiday Inn Downtown Binghamton
 2-8 Hawley Street
 Binghamton, New York 13902

Wednesday, May 20, 2015
 8:00 AM - 5:00 PM
 Clinton Community College
 136 Clinton Point Drive
 Plattsburgh, NY 12901

Tuesday, June 16, 2015
 8:00 AM - 5:00 PM
 SUNY College of Environmental Science
 1 Forestry Drive
 Gateway Center
 Syracuse, NY 13210-2785



Course enrollment fee: \$149* (which includes lunch, breaks, and PDF file of full presentation) *Groups of 3 or more attendees from same company: \$126.65/each

For more information contact Meeting Planner, Heather Courtney at heather@meetingie.com or (518) 852-0740

Instructor Bio:
 John Siegenthaler, P.E., is a mechanical engineering graduate of Rensselaer Polytechnic Institute, a licensed professional engineer, and Professor Emeritus of Engineering Technology at Mohawk Valley Community College. "Siggy" has over 35 years of experience in designing modern hydronic heating systems, including systems using high efficiency biomass boilers. John is principal of Appropriate Designs - a consulting engineering firm in Holland Patent, NY, and author of the textbook - Modern Hydronic Heating.

To avoid having ASHRAE messages blocked by spam-blocking software, add learninginstitute@ashrae.org to your address book.

ASHRAE's HVAC Design Training

HVAC Design: Level I—Essentials

ASHRAE's *HVAC Design: Level I — Essentials* provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

HVAC Design: Level 1—Essentials

When: March 16–18, 2015 | Atlanta, GA
 May 18–20, 2015 | Chicago, IL
 June 15–17, 2015 | Atlanta, GA

Cost: \$1,239 (ASHRAE Member: \$989)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

REGISTER



BONUS!

Get a FREE copy
 of *Standard
 189.1-2014* and
User's Manual.

A \$200 Value!



Register for BOTH training sessions to save money and fast track your experience level!

HVAC Design: Level II—Applications

ASHRAE's *HVAC Design: Level II — Applications* provides advanced instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I — Essentials training. In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability / Green/LEED / HPB / NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

HVAC Design: Level II—Applications

When: March 19–20, 2015 | Atlanta, GA
 May 21–22, 2015 | Chicago, IL
 June 18–19, 2015 | Atlanta, GA

Cost: \$829 (ASHRAE Member: \$679)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

REGISTER



BONUS!

Get a FREE copy of *ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 4th. ed.*

A \$100 Value!

Your Instructors



Julia Keen, Ph.D., P.E.,
 Member ASHRAE, HBDP
[view bio](#) →



Joel Primeau, P.Eng., Member
 ASHRAE, HBDP, LEED® AP
[view bio](#) →



Donald Brandt, Member ASHRAE
[view bio](#) →



Julian de Bullet, Life Member
 ASHRAE
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News

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

For Release:

Feb. 3, 2015

Contact: Jodi Scott

Public Relations

678-539-1140

jscott@ashrae.org

(Editors Note: Photo of committee that wrote publication available upon request)

ASHRAE, REHVA Jointly Publish Guide to Chilled Beam Systems

ATLANTA – Guidance on designing chilled-beam systems is contained in a new book from ASHRAE and the Federation of European Heating, Ventilation and Air-Conditioning Associations (REHVA). The "Active and Passive Beam Application Design Guide" is the result of collaboration by worldwide experts to give system designers a current, authoritative guide on successfully applying active and passive beam technology.

Building on REHVA's previously published *Chilled Beam Application Guidebook*, this new guide provides up-to-date tools and advice for designing, commissioning and operating chilled-beam systems to achieve a determined indoor climate and includes examples of active and passive beam calculations and selections.

Active and passive beam systems are an energy-efficient solution for spaces that require individual zone control and where the internal moisture loads are moderate.

"Active and passive beam systems provide good thermal comfort and energy and space saving advantages, and the operation of such systems is simple, with low maintenance requirements," co-editor John Woollett said. "In a building where the goal is a low energy usage index, beams can be an excellent choice of indoor climate product."

Although they are often referred to as "chilled" beams, in many cases active beams can be used for both heating and cooling the space. Active and passive beams are room air recirculation devices that transfer sensible heat to and from the space using water. In addition, conditioned primary air is ducted to active beams. This primary air must satisfy the ventilation and latent requirements of the space and drive the induction of room air through the beam's coil. In the case of passive beams, this primary air is delivered to the space through a decoupled ventilation system. Active and passive beams may be integrated with acoustic ceilings or independently mounted.

Woollett noted that chilled beams have specific applications and work well in commercial office buildings, schools, hospital patient rooms, laboratories and hotels. He said such systems are common in Scandinavian countries where they are a standard choice of indoor climate delivery in a variety of different applications.

The book provides information on the basics of operation but also background from engineers developing the beam technology with manufacturers. The main focus is comfort beam application in their passive and active variants.

The cost of the "Active and Passive Beam Application Design Guide" is \$62 (\$53, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

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.

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News

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For Release:

Feb. 4, 2014

Contact:

Jodi Scott Public Relations 678-539-1140 jscott@ashrae.org

Editors Note: Photographs from the Conference are available upon request.

Record Attendance Set for ASHRAE Winter Conference, AHR Expo

ATLANTA – Attendance at the recent ASHRAE Winter Conference and AHR Expo exceeded expectations with record numbers shown for both. The 2015 ASHRAE Winter Conference, was held Jan. 24-28, with the AHR Expo held Jan. 26-28, Chicago.

ASHRAE broke records for attendance at a Winter Conference with 3,018 attendees. Attendance this year was higher than the past six Winter Conferences, except Las Vegas 2011. Attendees came from more than 60 countries.

The Expo claimed the title for the best-attended event ever held in Chicago. Preliminary figures for the world's largest HVACR marketplace show that more than 61,000 total attendees, including 42,400 visitors, took part. Five Chicago records were shattered by the 2015 event:

- Total number of registered attendees – 61,990
- Number of visitors – 42,400
- Net square footage – more than 480,000
- Number of exhibiting companies – over 2,100
- Number of international exhibitors – 592

For ASHRAE, a major item of note at the Conference was recognition by the Green Building Initiative (GBI) on ASHRAE achieving the highest rating, of four Green Globes, on their international headquarters. Through a months-long process, GBI's Green Globes Assessor worked with ASHRAE staff to document the building's sustainable management practices. Only 3 percent of projects assessed by GBI achieve four Globes certification. Also taking place was launch of ASHRAE's and the United Nations Environment Programme (UNEP) OzonAction's fourth biennial work plan for 2015-2016, based on a global cooperation agreement signed in 2007. The ASHRAE-UNEP cooperation agreement was developed to achieve several international goals, including the sustainable phase-out of ozone depleting substances in refrigeration and air-conditioning applications; maximizing the climate benefits of using low-global warming potential alternatives including aspects of energy saving in buildings; as well as facilitating the transfer and adoption of sustainable and feasible technologies to developing countries.

The Conference's Technical Program ranked high in attendance, focusing on big projects, the big picture and big impacts with the intent of presenting big results for engineers, contractors, manufacturers and building professionals. Individual top-attended sessions in the technical program were seminars related to Lab Safety and Fire Alarm Response; Controlling a Minimum Impact Data Center; Design of Safe, Healthy and Energy Efficient Air Distributions for Hospitals; ASHRAE Design Guide for Tall, Mega Tall and Super Tall Building Systems; Refrigeration for Craft Brewing; Is Air-to-Air Energy Recovery Mutually Exclusive with Demand Control Ventilation and/or Airside Economizers?; Fan and System Integration for Maximizing Energy Efficiency Design; Hydronics 101: Design Basics and Complying with Standard 90.1; and Walgreens' Pursuit of a Net-Zero Store; as well as a Conference Paper Session on Using Solar to Improve Efficiency; and a Technical Paper Session on Energy Efficient, Hydronic HVAC Systems.

Also offered were a combined 20 Professional Development Seminars and Short Courses from ASHRAE Learning Institute. The most popular offerings were Complying with Standard 90.1-2013: HVAC/Mechanical; Designing High-Performance Healthcare HVAC Systems; and Design of Commercial Ground Source Heat Pumps.

Publications new to the ASHRAE Bookstore were sold at the Conference, including Load Calculation Applications Manual, 2nd ed.; the Chilled-Beam Design Guide with REHVA; Geothermal Heating and Cooling: Design of Ground-Source Heat Pump Systems; and Data Center Design and Operation: ASHRAE Datacom Series CD.

The 2015 ASHRAE Annual Conference takes place in Atlanta, Ga., June 27-July 1, 2015. The 2016 ASHRAE Winter Conference takes place Jan. 23 - 27, Orlando, Fla., with the AHR Expo being held Jan. 25-27.

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News

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For Release:

Feb. 5, 2015

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Public Relations

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ASHRAE, IAQA Approve Consolidation

ATLANTA – A consolidation between ASHRAE and the Indoor Air Quality Association has been finalized by both organizations. The consolidation was approved by the Boards of Directors for ASHRAE and IAQA at ASHRAE's recent 2015 Winter Conference in Chicago.



"We are excited about the opportunities presented by this consolidation," ASHRAE President Tom Phoenix said. "It opens the door to alignment of ASHRAE and IAQA programs to create high-impact resources for building professionals around the globe."

"This is an historic event for both associations and has great promise for growth and development for both organizations," IAQA President Kent Rawhouser said. "The opportunities and possibilities for members are only limited by our own imaginations. IAQA and ASHRAE are committed to growing and developing the IAQA brand. The consolidation will open new avenues for programs and benefits for our members."

In July, ASHRAE announced it had agreed in principle to join forces with the IAQA, combining resources to improve indoor air quality in the built environment. Since August, the two groups have been undergoing a period of due diligence. That diligence was completed earlier in January.

Under the consolidation, IAQA will become a part of the ASHRAE organization while maintaining its own brand and Board of Directors. IAQA will operate independently within ASHRAE's organizational structure.

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 2,600 members and more than 20 local chapters across the United States and Canada. More information is available at www.iaqa.org/news and at www.ieso.org.

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News

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Feb. 6, 2015

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ASHRAE/USGBC/IES Agree to Develop Biomass Requirements for Green Building Standard

ATLANTA – The development of biomass requirements is being explored by ASHRAE, U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES), for inclusion in their co-sponsored green building standard.

ASHRAE/IES/USGBC Standard 189.1, *Standard for the Design of High Performance Green Buildings*, contains minimum requirements for the siting, design and construction of high-performance green buildings in support of reducing building energy, resource consumption and other environmental impacts. To that end, the standard contains requirements for the use of renewable energy systems such as solar, wind and geothermal.

The Standard 189.1 Committee recently considered a proposal to add biomass to the definition of renewable energy systems, which was submitted by an interested individual from outside the committee. In this context, biomass includes organic material, such as wood and crop waste, that can be burned to generate thermal energy.

At ASHRAE's 2015 Winter Conference held recently in Chicago, the committee voted not to accept the proposal to simply add the word biomass to this definition. However, in its response to the proposal, the committee stated that they intend to work on a definition of biomass as well as requirements on the use of biomass to meet the renewable energy requirements of the standard, according to chair Andy Persily.

While the proposal from the committee must first go through the ASHRAE standards development procedures as well as public review, the committee is committed to developing a technically sound and responsible approach to include biomass as a renewable. Persily noted that the standard currently has no restrictions on the use of biomass as an energy source; however, it does not allow it to be used to meet the renewable energy requirements.

To learn more about actions regarding ASHRAE standards, visit www.ashrae.org/listserv. There, ASHRAE provides subscriptions to a variety of listserves, including one for Standard 189.1, that enable interested parties to stay up to date with the latest news, publication offerings, and various other Society activities.

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News

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For Release:
Feb. 10, 2015

Contact: Jodi Scott
Public Relations
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jscott@ashrae.org

Looking for the Right Candidate? Look to ASHRAE's New Job Board

ATLANTA – ASHRAE announces a new job board to assist members and employers for finding opportunities and candidates. An ASHRAE Journal survey of AHR Expo attendees showed that 67 percent of respondents expect industry business to increase by more than 5 percent in 2015. With increasing business prospects, ASHRAE is providing a new job board to help members and other professionals further their careers and for industry employers to find the right candidates. The new ASHRAE Job Board offers the following benefits to job-seekers:

- Search and apply for relevant jobs quickly and effectively.
- Set up job alerts for immediate notification of job postings matching skills and interests.
- Anonymous profiles and resume uploads.
- Useful tips and tools for improving job searching effectiveness.
- Single sign-in for ASHRAE members.

Employers can:

- Put their positions in front of ASHRAE's unique audience of engineering experts.
- Manage jobs and applicant activity on the Job Board site.
- Search the ASHRAE Job Board's candidate database.
- Limit applicants to only those qualified.
- Quickly find the right professionals for their positions.

The Job Board can be found at www.ashrae.org/jobs. The Job Board is designed to assist members and other industry professionals along with ASHRAE's student program, Young Engineers in ASHRAE, education and certification programs.

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News

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

For Release:
Feb. 20, 2015

Contact: Jodi Scott
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Proposed Energy Standard for Data Centers, Telecommunications Buildings Open for Public Comment

ATLANTA – A proposed standard from ASHRAE providing requirements for energy use in data centers is open for public input. ASHRAE Standard 90.4P, *Energy Standard for Data Centers and Telecommunications Buildings*, is open for its first public review until March 30, 2015. To read the draft standard and to submit comments, visit www.ashrae.org/publicreviews.

The standard would establish the minimum energy efficiency requirements of data centers and telecommunications buildings for design and construction and for creation of a plan for operation and maintenance, and for utilization of on-site or off-site renewable energy resources.

"The proposed standard is intended to work in concert with ASHRAE/IES Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*," Ron Jamagin, chair of the Standard 90.4 committee said. "There is no intent to duplicate what is contained in Standard 90.1, but rather we are proposing criteria to support the specialized nature of the larger data centers. When adopted, design and construction of data centers will require the use of both Standards 90.1 and 90.4 for compliance with building codes."

David Quirk, chair of ASHRAE's Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, noted that the intent of Standard 90.4P is to create a performance based approach that would be more flexible and accommodating of innovative change, which can occur rapidly in data center design, construction and operation.

Data center applications are unlike their commercial building counterparts in two significant ways, he noted. First, they include significantly higher plug loads. And second, they employ rapidly changing technology for the IT equipment and associated power/cooling approaches. "It has been acknowledged that these differences drive a fundamentally different approach to regulating minimum efficiency requirements for the electrical and mechanical systems that support the plug loads," Quirk said. "By using an approach that requires compliance to a 'system' level of performance, designers and end-users can utilize various trade-offs in their optimization strategies depending on their company specific business models."

There was also a recognition that current industry modeling tools do not possess all the necessary mathematical models to accurately and appropriately model data center HVAC and power design. As a result, demonstrating compliance to the 90.1 Chapter 11 or energy cost budget (ECB) approaches was deemed impractical, according to Jamagin.

This standard is based on the principles of power use effectiveness (PUE), as defined by The Green Grid. However, because PUE is an operational measurement metric, and this is a design standard, PUE terminology is not a technically accurate usage. The committee recognizes that language needs to be developed to relate the calculations of energy efficiency set forth in this standard to a total efficiency number, as well as to allow tradeoffs between electrical and mechanical elements. Suggestions from reviewers as to how best to accomplish this are welcome, he said.

Jamagin said the two committees are aware of some potential conflicts between the definitions of computer rooms and data centers in the standards. The intent is to address those conflicts once Standard 90.4 is approved and published.

The proposed standard applies to new data centers and telecommunications buildings or portions thereof and their systems, new additions to data centers and telecommunications buildings or portions thereof and their systems, and modifications to systems and equipment in existing data centers and telecommunications buildings or portions thereof.

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News

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ASHRAE/IES Publish Updated Standard on Energy Efficiency in Existing Buildings

ATLANTA – A newly revised standard from ASHRAE and IES seeks to provide greater guidance and a more comprehensive approach to retrofit of existing buildings for increased energy efficiency.

Published this week, ANSI/ASHRAE/IES Standard 100-2015, *Energy Efficiency in Existing Buildings*, provides comprehensive and detailed descriptions of the processes and procedures for the retrofit of existing residential and commercial buildings in order to achieve greater measured energy efficiency. Appendices are included for life-cycle cost analysis procedures as well as identification of potential energy conservation measures.

"The total primary energy used in both residential and commercial building sectors is expected by the U.S. Energy Information Administration to rise each year for the next several decades in spite of aggressive efficiency improvements in new construction," Rick Hermans, chair of the Standard 100 committee, said. "In order to reduce the overall impact of energy used by residential and commercial buildings, the existing building stock must become more efficient. This revision to Standard 100 provides the means to accomplish that goal."

The standard addresses both residential and commercial buildings. It addresses single and multiple activity buildings with variable occupancy periods and identifies the approach for 53 building types in 17 climate zones/subzones. It identifies requirements for buildings undergoing retrofits that do not fall under the scope of either ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, or ANSI/ASHRAE/IES Standard 90.2-2007, *Energy Standard for Low-Rise Residential Buildings*.

Standard 100 directly addresses a building's energy-use efficiency in a quantitative manner and provides a means to improve that efficiency with an objective benchmark created with the assistance of the Energy Information Administration, the Federal Energy Management Program and Oak Ridge National Laboratory.

Recognizing that the actual occupancy of the building plays a key role in its performance, the standard establishes the need for development of an energy management plan and an operation and maintenance program. It also addresses the requirements for ongoing commissioning.

The standard takes advantage of the fact that any building that has been in operation for at least twelve months can quickly determine its performance relative to some benchmark, which is defined in the standard as an energy-use intensity target. This concept is the new paradigm for energy conscious design, construction and operation of buildings, according to Hermans.

The revision of the standard, last published in 2006, also brings the standard in line with other published ASHRAE documents, specifically Standard 90.1-2013, Standard 90.2-2007 and ANSI/ASHRAE Standard 105-2014, *Standard Methods of Determining, Expressing and Comparing Building Energy Performance and Greenhouse Gas Emissions*.

The cost of ANSI/ASHRAE/IES Standard 100-2015, *Energy Efficiency in Existing Buildings*, is \$72 (\$61, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

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News

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ASHRAE Announces Spring 2015 Online Courses; New Course on Commissioning Process

ATLANTA – With the commissioning process becoming widely recognized as being critical to the success of high-performance buildings ASHRAE has added a new Learning Institute course focused on requirements in its first commissioning standard.

Taught by Walter Grondzik, P.E., the course, "Commissioning Process and Standard 202" is being held March 25, 2015. It is one of 12 Spring Online courses being offered by ASHRAE.

In 2005, ASHRAE Guideline 0, *The Commissioning Process*, addressed the commissioning process when it was a voluntary element of the building acquisition process. With the incorporation of mandatory commissioning requirements in standards, Such as ASHRAE/IES/USGBC Standard 189.1, *Standard for the Design of High Performance Green Buildings*, it was determined that a code-language description of the commissioning process was needed. That gap was filled with publication of ANSI/ASHRAE/IES Standard 202-2013, *Commissioning Process for Buildings and Systems*, which provides information on minimum acceptable commissioning process practices.

"The course reviews the commissioning requirements embodied in Standard 202 and links them to Guideline 0 and other technical support documents," Grondzik said. "We will provide an understanding of the commissioning process as described by Standard 202, explain how and why the Standard 202 commissioning process differs from that in Guideline 0, and explore how compliance with the standard is likely to evolve."

The 12 ALI courses provide professional development through in-depth information that is timely, practical and targeted to provide engineers in consulting practices, facility management or supplier support with instruction on applying ASHRAE standards and employing new technologies essential for advanced building performance.

Course participants earn continuing education credits and qualify for Professional Development Hours for each course completed. Courses are instructor-led, drawing upon professional knowledge of leading practitioners.

Continued on next page

Eight of the courses are part of ASHRAE's Career Enhancement Curriculum, which focuses on IAQ Practices (IAQ) and Energy Savings (ES) Practices. The program helps professionals expand their knowledge in specific areas of HVAC&R and advance their careers.

For registration costs and to register, visit www.ashrae.org/onlinecourses.

Half-day short courses are:

- Fundamentals & Applications of Standard 55-2013 (IAQ Practices), March 9
- Troubleshooting Humidity Control Problems (IAQ Practices), March 11
- Advanced High-Performance Building Design (ES Practices), March 23
- New! Commissioning Process and Standard 202, March 25
- IT Equipment Design Evolution and Data Center Operation Optimization, March 30
- Complying with Standard 90.1-2013: HVAC/Mechanical (ES Practices), April 8
- Fundamental Requirements of Standard 62.1-2013 (IAQ Practices), April 13
- NEW! Understanding Standard 189.1-2014 for High-Performance Green Buildings (ES Practices), April 20
- Complying with Standard 90.1-2013: Envelope/Lighting (ES Practices), May 4
- Exceeding Standard 90.1-2013 to Meet LEED Requirements (ES Practices), May 13

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

- Commercial Building Energy Audits – Part 1, April 22 and Part 2, April 27
- Energy Modeling Best Practices and Applications – Part 1, April 29 and Part 2, May 6 (ES Practices)