



# ASHRAE San Diego Newsletter



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

**REGION X**

**Volume 4, Issue 2**

[www.ashraesd.org](http://www.ashraesd.org)

**February 2012**

## FEBRUARY MEETING

### NOISE CONTROL SOLUTIONS FOR THE HVAC MARKET

**Member get a Member  
Tuesday, February 14th**

**11:15-11:45:** Sign In

**11:45-12:00:** General Introductions and  
Announcements

**12:00-1:30:** Lunch & Speaker

#### **Where:**

#### **The Butcher Shop**

5255 Kearny Villa Rd.

San Diego, CA 92123 (858) 565-2272

**Full Details on Page 5**

#### **INSIDE THIS ISSUE**

- 1 February Meeting Info, CTTC Update
- 2 Member Get a Member
- 3 Calendar of Events and Seminars
- 4 CTTC Update Continued
- 5 February Meeting Details
- 6 San Diego Roster
- 7 Upcoming ASHRAE Events in SD, Membership
- 8 Letter from the Editor, YEA!
- 9 Officers/Committee Members, Science & Engineering Fair
- 10, 11 CTTC Update Continued
- 12 ASHRAE Webcast
- 13 PDH Credit Info, ASHRAE Bookstore
- 14 ASHRAE Bookstore
- 15 California Policy Fellowship
- 16 Performance Building Conference
- 17 ASHRAE Learning Institute Information
- 18 Drink for YEA!, ASHRAE Bookstore

### **CTTC Update**

Gerald D. Hartford, Jr., P.E., LEED AP  
Syska Hennessy Group, Inc.

On Friday, February 3, 2012, 7:00 AM – 8:15 AM (a breakfast meeting), we conducted an official CTTC meeting, in the office of Syska Hennessy, representing the San Diego chapter of ASHRAE. Breakfast was served.

Those in attendance included:

Jerry Hartford - CTTC Chair / BOG Member  
Heather Schopplein – Chapter Secretary  
Allen Hampton - Chapter Member  
Kevin Blankemeir – Chapter YEA / Website Chair

Others who were invited but unable to attend included:

Dennis Christie - Chapter President  
Rebecca Haehn – Chapter President-Elect  
Brian Alexy - Chapter Member/Membership Chair

Our agenda included the following:

1. Review of previous meeting minutes (edit as required).
2. Discussion on 2012 ASHRAE Winter Meeting.
3. Discussion on 3-hour technical sessions. When? How many? What subjects?
4. Regular meeting speakers/presentations – beyond June 2012?
5. Discussion on Region X CTTC RVC.
6. Refrigeration sub-committee chair candidates? Refrigeration presentation?
7. Discussion on current/pending PAOE points.

Previous minutes were reviewed and approved.

Jerry and Allen presented their “take” on the 2012 ASHRAE Winter meeting.

(Continued on Page 4)



## Belzona California

Repair - Protect - Improve

Ceramic, High Temp, Efficiency Coatings for  
Chillers, Cooling Towers, Tanks, Pumps, etc

**Dave Kijowski,**

Technical Consultant

NACE Certified Coating Inspector Level 2

Office 619-301-7370

Cell 760-622-8011

[www.kijinc.com](http://www.kijinc.com)

Are you looking to educate ASHRAE  
members on your products or  
services?

Table Tops can be purchased at our  
meetings for \$200, contact a Board  
Member for more information!



**HEAT TRANSFER**  
SOLUTIONS

Representing:



Boilers  
Water Heaters  
Heat Exchangers  
Low NO<sub>x</sub> Burners

Brian Alexy  
619.206.5630  
[brian@heat-xfer.com](mailto:brian@heat-xfer.com)  
[www.heat-xfer.com](http://www.heat-xfer.com)

**Interested in becoming more  
involved with ASHRAE  
through Chairing a Committee  
or becoming an Officer?  
Please contact one of the  
existing Chairs or Officers to  
find out how!**

## Help Us Recruit New Members – Have Lunch on Us!

Brian Alexy, LEED AP

Heat Transfer Solutions

Membership Promotion Chair, 2011-12

ASHRAE is always looking for new and better ways to spread the importance of being a member, especially if you work in the HVAC & R industry. Any member who brings a non-member to a regular monthly meeting or tour will eat for FREE, provided the non-member joins ASHRAE Society and the SD Chapter at the meeting. The new member will have their meal on us as well. It's our way of saying thank-you for helping the San Diego Chapter grow.

In order to get your free meal(s), come find me, Brian Alexy – Membership Chair, at the sign in desk and I'll take care of you! Remember, in order to qualify, the new member must sign up for ASHRAE and submit a check at the meeting. The check shall be made out to "ASHRAE" in the amount of \$215.00. Filling out the application and sending in your check at a later date will not get you a free meal I'm afraid. Please note, no cash or credit cards will be accepted when new members sign up. Checks only, thanks!

To help recruit new members, below is a short list of why it is awesome being a member of ASHRAE:

1. Discount on ASHRAE products (books, standards, conferences, etc.)
2. Leadership training and development of professional skills
3. Career services and employment possibilities
4. Continuing education, keeping up with current technology, and access to current HVAC Industry information
5. Networking opportunities and monthly and annual events for technology, employment, and projects
6. A chance to become a chairperson or an officer-to gain an experience that will have value on professional resumes
7. Industry respect through ASHRAE affiliation, and/or volunteer-ship
8. Access to \$2.9 million dollars (this year alone) worth of research information in the industry
9. To help make a difference in the engineering world
10. Be a part of a society that makes the world a better place to live in by enhancing the air we breathe, improving workplace environment, and by creating a better quality of life by providing sustainable solutions
11. For FUN and a sense of true accomplishment

## FEBRUARY DATES TO REMEMBER

**2/03:** FUN FRIDAY NIGHTS, SAN ELIJO RECREATION CENTER, SAN MARCOS  
**2/04:** EL CAJON FORD YOUTH FISHING DERBY, LAKE POWAY  
**2/05:** SUPERBOWL SUNDAY  
**2/06:** FIESTA ISLAND TIME TRIAL SERIES, EAST MISSION BAY  
**2/11:** FOR THE LOVE OF CHOCOLATE & SWEETART FESTIVAL, ESCONDIDO  
**2/12:** CORONADO VALENTINE'S DAY 10K, TIDELANDS  
**2/14:** ASHRAE MEETING  
**2/16-2/26:** CIRCUS VARGAS, BALBOA PARK  
**2/18:** LITTLE ITALY CARNEVALE, LITTLE ITALY  
**2/18:** K9 CANCER CURE WALK, WALNUT GROVE PARK, SAN MARCOS  
**2/18:** POLAR PLUNGE, OCEANSIDE PIER AMPHITHEATER  
**2/19-2/25:** NATIONAL ENGINEERS WEEK  
     **2/18:** DISCOVER ENGINEERING FAMILY DAY  
     **2/23:** INTRODUCE A GIRL TO ENGINEERING DAY  
**2/20:** PRESIDENTS DAY  
**2/21:** FAT TUESDAY, MARDI GRAS  
**2/21:** MARDI GRAS 2012 GASLAMP QUARTER, DOWNTOWN  
**2/24-2/26:** HERITAGE WEEKEND FESTIVAL & PARADE  
**2/25:** FREE E-WASTE COLLECTION EVENT, ENCINITAS  
**2/29:** LEAP DAY

## SEMINARS & CLASSES

FOR MORE INFORMATION ON ALL SEE [WWW.SDGE.COM](http://WWW.SDGE.COM)

### DENOTES WHERE THE CLASSES ARE LOCATED:

\*CA CENTER FOR SUSTAINABLE ENERGY  
 8690 BALBOA AVE, SAN DIEGO, CA 92123  
 \*\*4760 CLAIREMONT MESA BLVD, SAN DIEGO, 92117

### \*JOIN THE CCSE ELITE VOLUNTEER AMBASSADORS

DATE: TUESDAY, 2/7/12; 6:00 PM- 7:30 PM









### \*\*HEALTH BENEFITS OF A GREEN BUILDING

DATE: WEDNESDAY, 2/22/12, 8:00 AM- 10:00 AM

### \*\*THE ECONOMICS & FINANCIAL OPTIONS IN RETROFITTING COMMERCIAL BLDGS

DATE: THURSDAY, 2/23/12, 8:00 AM- 11:00 AM

# FEBRUARY 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4 Fishing Derby 
5 Superbowl Sunday 	6	7	8	9	10	11 For the Love of Chocolate 
12	13	14 	15	16	17	18 Polar Plunge 
19 National Engineers Week (thru the 25th)	20 Presidents Day 	21	22	23	24	25
						
26	27	28	29 Leap Day 			





**JOHNSON  
THERMAL  
SYSTEMS**

## *Process Cooling Solutions*

### **Packaged Air-Cooled & Water-Cooled Chillers**

MRI and CT      Data Centers  
Clean Rooms      Process Applications

### **Evaporative Condenser Chillers**

### **Packaging & Finishing Services**

### **Custom Design & Manufacturing Services**

### **OSHPD Seismic Pre-approved Chillers**

Air-Cooled Models, Sizes from 3 to 30 Tons  
Single and Dual Circuit  
(OSP 0173-10)

### **Chiller Standard Features (Air-Cooled)**

- Digital Scroll Compressors
- Electronic Expansion Valves
- EC Motor Driven Condenser Fans
- All Aluminum Micro-channel Condenser Coils
- Pumps
- Stainless Steel Buffer Tanks

### **Chiller Options**

- High Ambient Package
- OSP Models
- Remote Terminal Monitoring
- 304 Stainless/Aluminum Siding
- Expansion Card for BACNET/MODBUS



**Toll Free (855) 255-4JTS**

**[www.JohnsonThermal.com](http://www.JohnsonThermal.com)**

**[sales@johnsonthermal.com](mailto:sales@johnsonthermal.com)**

### **CTTC Update**

(Continued from Page 1)

Allen attended the AHR Expo-only while in Chicago – Monday through Wednesday at 4:00 PM, returning to San Diego, late Wednesday night. Jerry attended numerous ASHRAE technical sessions (all day Sunday, Monday morning, Tuesday morning & Wednesday morning), along with spending two (2) afternoons (Monday & Tuesday) at the AHR Expo, returning to San Diego Thursday morning.

The most significant issue of concern for Jerry was the shameless self-promotion by so many of the presenters at technical sessions. The manufacturers and vendors get-it, that they cannot include product names in their presentations, but that does not stop them from pushing the envelope in their oral presentations. And the engineers and contractors that presented were even worse. Shame on them for such inappropriate professional self-promotion. Jerry completed an evaluation after every single session, unable to offer any praise for any presentations except for a very select few.

So, rather than whine about the issue, Jerry suggested a positive, proactive step into finding out how presentations are evaluated and who does it. Kevin agreed to lead this research effort and find out the presentation review process, who does it, where it is physically accomplished, etc. The fear that Jerry has is that we have non-technical people reviewing the presentations simply to exclude product names, having little opportunity to fully screen the speakers themselves (or what they intend to say).

The second concern expressed by Jerry was the fundamental (101) nature of most, if not all of the presentations. It was like experiencing HVAC 101. With few exceptions, every presentation was either “old technology” or “nothing new”. And Jerry selected most sessions that were marked “ADVANCED”. Certainly they were NOT advanced.

So once again, rather than whine about the issue, Jerry suggested a positive, proactive step to finding out how presentations are evaluated for technical content and who does it. Kevin agreed to make this part of his research effort. When we find out the process, then we intend to make some recommendations to improve it. The fear that Jerry has is that ASHRAE is simply accepting technical content to “fill-the-open-slots” of time required for presentations, without truly evaluating if the presentation has any credible, technical merit.

(Continued on Page 10)

# February Meeting

## NOISE CONTROL SOLUTIONS FOR THE HVAC MARKET

Learn how to answer the 4 main  
acoustic design questions:  
Where are we now?  
Where do we need to be?  
What needs to be done to get there?  
How do we get there?

**Presented by**  
**Brandon Wallace,**  
**BRD Noise and Vibration Control, Inc.**

Mr. Wallace has worked extensively with engineers and manufacturers designing and manufacturing long-term engineered noise control solutions for the HVAC, Industrial, Architectural, and Environmental markets. He is currently the Regional Sales Manager for BRD responsible for design and sales.

### **When:**

**DATE:** Tuesday, February 14, 2012

**11:15-11:45:** Sign In

**11:45-12:00:** General Introductions and Announcements

**12:00-1:30:** Lunch & Speaker

### **Where:**

**The Butcher Shop**

5255 Kearny Villa Rd.

San Diego, CA 92123 (858) 565-2272

### **Fee:**

\$20.00 Students and Retired

\$35.00- IF RSVP by February 13th at 9 AM

\$40.00 At the Door

\$50.00 Not an ASHRAE Member , Associate, or Affiliate

\$200.00 - Table Top Sponsor

RSVP by calling or emailing your reservation to:

Heather O'Donnell

Phone (858) 391-7014

Email: [Heathero@climatec.com](mailto:Heathero@climatec.com)

# ASHRAE San Diego Chapter 2011-2012 Roster is Now Available!!!

**YOU HAVE BEEN WAITING FOR IT AND NOW  
IT IS HERE! JUST CLICK THIS LINK:**

<http://www.ashraesd.org/ashraesdroster2012.pdf>

**Password: sd2012roster**

As a benefit to our members we are providing the Roster in electronic format, downloadable from the ASHRAE San Diego website, this will allow you to use the roster on your computer. We hope that it will be more convenient to our members to look up people and business using their computers. The electronic format will allow our members to use the convenience of searching by name and company using the built in Adobe Reader search function. The electronic format also included live links to email addresses, advertisements and web sites.

## Instructions:

1. Click on the link above to open the Roster File.
2. If you do not have Adobe Reader installed on your computer following the link on the opening menu. We have also included a copy of the program on the disk.
3. Enter the password above to access the pdf file.
4. Download the pdf files for your use.

If you have any feedback, please contact me at the number/email below.

Sincerely,

Heather Schopplein, PE  
ASHRAE San Diego  
Secretary  
[hschopplein@gmail.com](mailto:hschopplein@gmail.com)  
619-704-1900 x104

## ASHRAE Events In San Diego

Cindy Hyatt

TM Mechanical

Hey there fellow San Diegans! After a wonderful week in Chicago for the ASHRAE Convention and AHR Expo, I'm quite happy to be back in our little slice of heaven. And apparently the trend is catching on back at ASHRAE Headquarters as we have two very exciting events coming up here in our beautiful city! As many of you are aware, the High Performance Building Conference is quickly approaching, taking place March 12-13<sup>th</sup> in Mission Valley. We are fortunate to have many local individuals involved in the upcoming conference and it's anticipated to have a great turnout. Full details of the conference are on page 16.

Likewise, it was just announced in Chicago that the next YEA Leadership Weekend (YLW) will be taking place here in San Diego on the weekend of March 30<sup>th</sup> thru April 1<sup>st</sup>! As your YEA (Young Engineers in ASHRAE) Regional Coordinator and San Diego Chapter board member I am extremely excited to see our city host such a dynamic event and expose our young members to all that ASHRAE has to offer. YEA Leadership Weekend is an opportunity for future leaders of ASHRAE to learn more about Society, develop soft skills and network with other young professionals. The event includes segments on understanding your own personality as well as other personality types, professional development, communication techniques and ASHRAE leadership opportunities. Registration is slotted to open Monday, January 30<sup>th</sup> (although it may be postponed a week) and there is a limited number of spots available (typically only 30 for each YLW) so be sure to submit your registration as soon as possible. Visit <http://www.ashrae.org/membership--conferences/young-engineers-in-ashrae> for more information or feel free to contact me any time at [cindyh@tmmechanical.com](mailto:cindyh@tmmechanical.com). I look forward to seeing San Diego represent at these upcoming events!

Bob Franco  
New Business Development  
CSLB #665136



**LUVATA**

Luvata ElectroFin, Inc.  
27633 Commerce Center Drive  
Temecula, California 92590-2521

951 699 8528 ext 302  
951 587 9738 Fax  
866 488 0217 Toll Free  
903 316 5324 Mobile

bob.franco@luvata.com  
[www.Luvata.com/electrofin](http://www.Luvata.com/electrofin)

**Coil & Cabinet Coating Services**

YOUR  
AD  
HERE!!

## Upgrade Your ASHRAE Status from "Associate" to "Member"!

Brian Alexy, LEED AP

Heat Transfer Solutions

Membership Promotion Chair, 2011-12

Did you know it doesn't cost any extra to go from an Associate Member to a Full Member? What are you waiting for?! Log in to your ASHRAE account and upgrade online! In addition to being recognized by ASHRAE as a full member, you'll also help our chapter earn valuable PAOE points by upgrading.



## Letter from the Editor

Jennifer Felsburg

Trane

### Would you like to promote your company thru the newsletter?

Get a free month post when you contribute to the newsletter. You can write an article on HVAC related news, share photos from ASHRAE events, or write a recap of a meeting...If you would like to contribute, please email your submission by the 24th of the month. Email any questions/comments to [jjdriscoll@trane.com](mailto:jjdriscoll@trane.com).

Or you can advertise as follows:

Business Card 6 Issues; \$80

Business Card 12 Issues; \$140

Half Page (4.9" tall x7.25" wide) Ad 1 Issue; \$50

Half Page (4.9" tall x7.25" wide) Ad 3 Issues; \$125

Full Page (9.8" tall x7.25" wide) Ad 1 Issue; \$100

Full Page (9.8" tall x 7.25" wide) Ad 3 Issues; \$250

**Submissions:** Due by 24th of the month for inclusion in the newsletter issued on the 1<sup>st</sup>. Email submissions to: [jjdriscoll@trane.com](mailto:jjdriscoll@trane.com) please include "ASHRAE SD Newsletter Ad" in the subject line.

Chiller Tube Sheet Coating and Preservation Solutions for Cooling Towers, Condensate Tanks and Air Handlers, Leaks

Pump Efficiency Improvements- Coating & Surfacing  
Fluid Sealing Systems for Leak Free Packing and Gaskets -  
Steam, Chemical, Nuclear, Marine - Authorized Dealer -

"The Mechanical Seal on a Spool"



Contact KIJ—Web site [www.kijinc.com](http://www.kijinc.com)

Sales & Service email- [office@kijinc.com](mailto:office@kijinc.com)

Phone 619-301-7370 and 760-622-8011

## CALLING ALL AUTHORS!!!

Do you enjoy writing and sharing with your fellow HVAC professionals? Here in ASHRAE, we encourage all members to share their experiences, thoughts, photos, stories and ideas with one another in the immense forum available to our membership.

The San Diego ASHRAE chapter is actively looking for HVAC related articles to be included in our monthly newsletter. By submitting an article, you may become eligible for a free post in our monthly newsletter. Please contact our editor, Ms. Jennifer Felsburg at [jjdriscoll@trane.com](mailto:jjdriscoll@trane.com) with your submission or for more information regarding the San Diego Chapter newsletter.

Likewise, our society publication, *Insights*, also seeks content from our membership on an ongoing basis. The *Insights* newsletter is distributed to our membership every other month with the ASHRAE journal and is available electronically at <http://www.ashrae.org/publications/>. If you have an article that you would like to share with Society, please contact myself at [cindyh@tmmechanical.com](mailto:cindyh@tmmechanical.com) or log on to the Society publications page for further instructions.

**The San Diego HVAC community has a voice – LET IT BE HEARD!**

Warmest Regards,

**Cindy Hyatt**

San Diego Chapter Publicity/Welcoming Chairperson

## YEA!

Kevin Blankemeir

ECS Controls

The YEA Leadership Weekend (YLW) is coming to San Diego the weekend of March 30<sup>th</sup> through April 1<sup>st</sup>. This is an excellent event, and I suggest attending. For more information go to <http://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/yea--leadership-weekend>. Don't wait to register, this event will fill up fast.

The February YEA happy hour will be on Leap Day at The Bullpen, 8199 Clairemont Mesa Boulevard on Wednesday, Feb 29<sup>th</sup> at 5:30 PM

Are you signed up to take the EIT or PE in April? YEA will hold a study group to help you pass! Send me an email at [YEASanDiego@gmail.com](mailto:YEASanDiego@gmail.com) if interested.

Thanks,

Kevin Blankemeier, P.E.

[YEASanDiego@gmail.com](mailto:YEASanDiego@gmail.com)



## 2011-2012 OFFICERS & CHAIRS

### OFFICERS:

**President: Dennis Christie**  
Climatec, Engineered HVAC Solutions  
13715 Stowe Drive  
Poway, CA 92064  
(858) 391-7000  
dennisc@climatec.com

**President-Elect: Rebecca Haehn**  
Trident Technologies  
7425 Mission Valley Rd., Suite 207  
San Diego, CA 92108  
(619) 688-9600  
rhaehn@tridenttech.com

**Secretary: Heather Schopples, P.E.**  
Bender Dean Engineering  
438 Camino Del Rio South  
Suite 217  
San Diego, CA 92108  
(619) 704-1900 x 104  
hschopples@benderdean.com

**Treasurer: Hugh Egan**  
Climatec Engineered HVAC Solutions  
13715 Stowe Drive  
Poway, CA 92064  
(858) 391-7007  
hegan@climatec.com

**BOARD OF GOVERNORS:**  
Mark Richards, P.E., Past-President  
Jerry Hartford, P.E.  
Mark Silke  
Jennifer Felsburg  
Bruce Brown  
Cindy Hyatt

### COMMITTEE CHAIRS:

#### Attendance/Reception:

Heather O'Donnell

#### Auditing:

Lyle Sarver

Roy Campbell

#### Finance:

Hugh Egan

#### Historian:

Terry Erickson

Rick Springe

#### Honors and Awards:

Walter Houle, P.E.

#### Membership:

Brian Alexy

#### Mentoring:

Bill Reagan

#### Newsletter:

Jennifer Felsburg

#### Nominating Committee:

Mark Bender, P.E.

#### PAOE:

Heather Schopples

#### Programs/CTTC:

Rebecca Haehn

#### Publicity/Welcoming:

Cindy Hyatt

#### Refrigeration:

Jerry Hartford, P.E.

#### Research Promotion:

Andy Nash

#### Special Events:

Mark Silke

#### Student Activities:

Mike Techner

#### TEGA:

Jerry Hartford, P.E.

#### Website:

Kevin Blankemeier

#### YEA:

Kevin Blankemeier

### CALIFILTER [Est. 2001]

45390 Camino Monzon

Temecula, CA 92592

951.302.9030

Strategic Partner:

Richard L. Farr@

R&B Filtration

ASHRAE Member

USGBC Member

LEED

**RANDALL PRATT**  
Air Filtration Sales

eFax: 619.615.2303

eMail:

RandallPratt@CALIFILTER.com

### San Diego Sales Office



**TRANE**

### Commercial Systems/Southern California

3565 Corporate Court

San Diego, CA 92123

Office (858) 576-2500

Fax (858) 576-2554

www.trane.com



### ASHRAE San Diego Foundation

#### Board of Directors:

Mark Richards, P.E.,

Mike Frazier

Verle Williams, P.E.

Chuck Poindexter

Bill Reagan

Walter Houle

Jim McKinley, P.E.

**T&M**

MECHANICAL SALES CO.

215 S. Hwy 101, Ste. 107, Solana Beach, CA 92075

Tel: 858.481.6176 Fax: 858.259.7796

sales@tmmechanical.com

www.tmmechanical.com

#### Specializing in:

- Boiler, Engine & Water Heater Exhaust Flues
- Fan Coil Units
- Computer Room A/C Units
- Fin Tube Radiation Units & Convectors
- Flow Control Valves
- Process Chillers

## Chapter Continues to Support Students' Engineering Education

Bill Reagan

Q Applied Systems

Each year the ASHRAE San Diego chapter participates in the Greater San Diego Science and Engineering Fair. Chapter members volunteer to act as professional society judges to evaluate student exhibits within the engineering fields of interest to us. Students of the top three exhibits are awarded with a \$200 savings bond. In addition, student's teachers are awarded \$400.00 to help prepare their class for the next science fair. Last year, a San Pasqual high school student was recognized for his work as was Yun Lutgen who was his robots class teacher. The North County Times article below gives you an idea of these students' potential and the support from their teachers, volunteers and organizations such as ASHRAE.

North County Times Article:

[http://www.nctimes.com/news/local/escondido/escondido-co-opertition-part-of-lesson-in-annual-robotics-project/article\\_4c1227ac-1926-57d3-923a-5dd91fdb23ff.html?mode=story](http://www.nctimes.com/news/local/escondido/escondido-co-opertition-part-of-lesson-in-annual-robotics-project/article_4c1227ac-1926-57d3-923a-5dd91fdb23ff.html?mode=story)

The chapter's financial support of the Greater San Diego Science and Engineer Fair, along with the annual college level scholarships, is made possible through the ASRHAE San Diego Foundation. The ASDF overseas the long range charitable goals of the chapter of which you are a member.

## CTTC Update (Continued from page 4)

The third concern expressed by Jerry was the need to encourage and successfully engage younger engineers “in the HVAC business” to attend the ASHRAE conferences, not just ASHRAE students. In spite of what Jerry experienced during this recent event, the technical seminars are usually very good, informative and educational (the most important part). And certainly the trade-show is awesome. As a matter of fact, it is on the trade floor that most of the “new technology” is observed and where the discussions with manufacturers can really be informative and educational. But just being there allows an individual the vehicle to become more engaged in ASHRAE and all of the technical committees that are hosted by ASHRAE. It’s a most valuable way to become more engaged in ASHRAE --- our industry.

So once again, rather than whine about this issue, Jerry suggested that we need to present to the Board an idea of sponsoring up to \$500 per person to attend the ASHRAE annual and/or summer meetings for as many candidates as possible. Let’s tap-into Foundation funds that are available for this express purpose. It was Heather who also added that if the candidates agree to be a monitor, the cost of registration at the conference is also waived, so between ASHRAE and monitoring, the only cost to the candidate (or his/her company) would be for hotel and/or food. We on the CTTC all understand how expensive it is to attend an ASHRAE conference and how limited funds are relative to companies sending their team members, but in spite of the economy, we need to do something to assist those younger engineers who are IN our industry to gain even more education about our industry. Jerry will present this concept to the Board at the next BOG meeting.

Jerry once again challenged the CTTC with the idea of hosting our own, independent (of national CTTC), 3-hour technical sessions. For each we can garner 300 PAOE points (up to a maximum of 600). This is an important issue and Jerry would like to see it happen. The action item going forward was to continue to develop ideas of appropriate technical sessions, who the speakers/presenters might be, etc. This type of session would be above and beyond our regular monthly meetings. It’s possible there might even be a nominal charge to attend (between \$100-\$200 per attendee). However, the subject matter must be relevant and intriguing. Jerry suggested a significant refrigeration presentation, i.e. heavy research to find out where all the refrigerated warehouses, etc. are located throughout the United States, and what types of refrigeration systems they employ, and then a complete discussion on the pros & cons, and/or lessons-learned regarding design of such different refrigeration systems. Just an idea for now. The CTTC intends to discuss further.

We had further discussion about potential meeting topics/speakers after our June 2012 meeting (already looking at next year). Heather presented a draft of a list of meeting/speaker topics (since she will be responsible for programs next year) She presented an awesome list – a list from which we as the CTTC will continue to vet in future meetings.

Jerry presented what he was told at the Region X dinner, Sunday, January 22, 2012 in Chicago. Mike Burgess informed Jerry that he was successfully identified as the next Region X CTTC RVC (regional vice chair). Although Jerry was aware of his nomination (and acceptance thereof), he was informed months ago that another individual (Gary Nelson from another chapter) was selected. However, apparently for whatever reason, Mr. Nelson withdrew his name for the position and the nod then went to Jerry. Congratulations to Jerry (he thinks). Actually, it’s very cool since now we have four (4) Region X representatives --- Mike Burgess, Cindy Hyatt, Tiffany Bates and now Jerry Hartford. San Diego is well-represented in Region X. Congratulations to the San Diego chapter for choosing to be so involved and so well-represented.

We are still searching for a person to serve as the sub-committee Refrigerant chair. The two (2) candidates that had been previously identified are not able to commit to the level members of the CTTC would like, therefore, the search continues. Allen and Jerry are going to put their heads together and pursue this further.

We also discussed that we had offered two (2) \$1,000 stipends to send ASHRAE student members to the 2012 ASHRAE Winter Conference in Chicago, in January 2012. Although we had one candidate (from Jerry’s SDSU class) who was nominated, for personal reasons, he did not attend (Adam Bolduc). Back to the point raised earlier by Jerry, we have a choice as a chapter to either offer ASHRAE students the opportunity OR to send those young engineers who have already committed to the trade to attend the ASHRAE conferences. Both will be presented/discussed at the next BOG meeting.

**(Continued on next page)**

## CTTC Update (Continued from previous page)

We had further discussion about maximizing PAOE points and some of the things we need to do/record to make this happen. Many ideas but the one that rose to the top was the submission of projects in pursuit of technology awards. That one exercise can garner "big" PAOE points. It makes no sense that as the San Diego chapter, we have no possible projects for submission. Jerry has already committed that in one (1) year, he will submit the Maricopa County Courthouse project (Phoenix, AZ) since he will then have a years-worth of energy data. So, the CTTC intends to initiate a discussion at the next BOG meeting to raise the awareness and the importance of submitting projects from the San Diego chapter, for technology awards.

Kevin reminded the CTTC about the upcoming YEA Leadership Weekend scheduled for San Diego, March 30-April 1. Registration is \$450 and Brian Alexy has received a nomination for sponsorship-attendance. The Board will vote accordingly (next BOG meeting).

Jerry pointed-out the upcoming ASHRAE High Performance Building conference coming to San Diego on March 12-13, 2012 and encouraged all CTTC members to promote as much local attendance as possible. Obviously the cost is \$550 for full conference registration, however, "virtual" conference registration is only \$99. This close to home, it would be great if many members from the San Diego chapter could find a way to attend.

Meeting adjourned promptly at 8:15 AM.

The next CTTC meeting is scheduled for Tuesday, February 28, 2012 (a lunch meeting).



Shaping Tomorrow's  
Built Environment Today

My fellow ASHRAE members,

I have some exciting news to share regarding a rebranding of our great Society. For more than 100 years, ASHRAE has provided guidance for HVAC&R. As time and technology have changed, so has ASHRAE, moving from focusing solely on HVAC&R to providing guidance for total building design, reconstruction, construction and operation.

In recognition of this evolution, ASHRAE is making some changes regarding how we brand the Society. Our promise for sustainability encourages us to improve the quality in the built environment while leaving a lasting legacy for future generations. The new ASHRAE brand supports our focus on improving engineering standards and our market position as a community of engineers and related professionals united by knowledge, mission and a code of ethics to design, construct and operate better places for people to live, work and play.

First, and most visible, is a refreshing of the ASHRAE logo. Market research showed us that the logo had a dated brand presence (the logo was created in 1959 to recognize the merger between The American Society of Refrigerating Engineers and the American Society of Heating and Ventilating Engineers) and that we needed a more modern look that fully reflects the evolving structure of the Society and our aspirations. Along with this logo, we have created an [ASHRAE Logo Guide document](#) to ensure that we maintain a consistent brand image.

In addition, we have created a tagline to help explain to outside audiences the expanded role of ASHRAE in the world around us. "Shaping Tomorrow's Built Environment Today" presents ASHRAE as the dynamic and innovative Society it is today and promises our members, the industry and the world that whatever the future brings in the built community, ASHRAE will be at the forefront for research and guidance.

Lastly, we are doing business as "ASHRAE" vs. using our full legal name of the American Society of Heating Refrigerating and Air-Conditioning Engineers. Use of ASHRAE reflects our global membership and that our services will continue evolving globally.

In addition, the rebranding coincides with a redesign of ASHRAE.org. With this redesign comes better navigation, a better search engine and better tracking, all of which will help you find the information you need whether it's for your role in the industry or ASHRAE.

An announcement regarding the rebranding was made today at the Society's 2012 Winter Conference being held in Chicago. We also shared an inspirational video with the audience that tells the story of ASHRAE. You can view the video [here](#).

Following the Conference, we will provide additional guidance and information for our grassroots regions, chapters and student branches on how this change impacts how these groups conduct business. In addition, we have created a [Frequently Asked Questions document](#) that provides answers to some of the questions you may have.

This is an exciting time for our Society! I look forward to working with you and our more than 52,000 members around the world to shape tomorrow's built environment today.

Thank you.

Ron Jarnagin  
2011-12 ASHRAE President



April 19, 2012 1:00 PM-4:00 PM EDT

# Dedicated Outdoor Air Systems:

## *A Path to Balancing Energy and IEQ*

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.



### Presenters



**Ron Jarnigan, 2011-12  
ASHRAE President**  
Staff scientist | Pacific North-  
west National Laboratory |  
Richland, WA



**Tim McGinn, P.E., LEED AP**  
Principal | Dialog | Calgary, AB,  
Canada



**Stan Mumma, Ph.D., P.E.**  
Professor Emeritus | Pennsylvania  
State University | University Park, PA



**John Murphy, LEED AP**  
Applications Engineer | Trane |  
La Crosse, WI

#### How to Participate

- You may register to view the Webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

#### PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units may be awarded to viewers who complete the "Participant Reaction Form" by May 3, 2012.

Sponsored by:



**valent**  
AIR MANAGEMENT SYSTEMS



**ROTOR SOURCE**

**EngA ENGINEERED AIR**

Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at [www.ashrae.org/doaswebcast](http://www.ashrae.org/doaswebcast)



## How to Earn Professional Development Hours (PDH's)

**ASHRAE Webcast participants may earn credit towards continuing education, license renewal or certification renewal requirements. Please review the information below to learn how credits may be available for participants via the live webcast, archived webcast, or the DVD.**

### **Live Webcast**

Three (3) Professional Development Hours (PDHs) or (3) AIA Learning Units (LUs) may be awarded to viewers of the live webcast who complete the Participant Reaction Form online by **May 3, 2012**. The Participant Reaction Form will be posted following the live webcast at <http://www.ashrae.org/doaswebcast> and must be completed by **May 3, 2012** to allow ASHRAE to comply with reporting requirements. Your Attendance Certificate can be printed on your printer immediately after you submit the Participant Reaction Form.

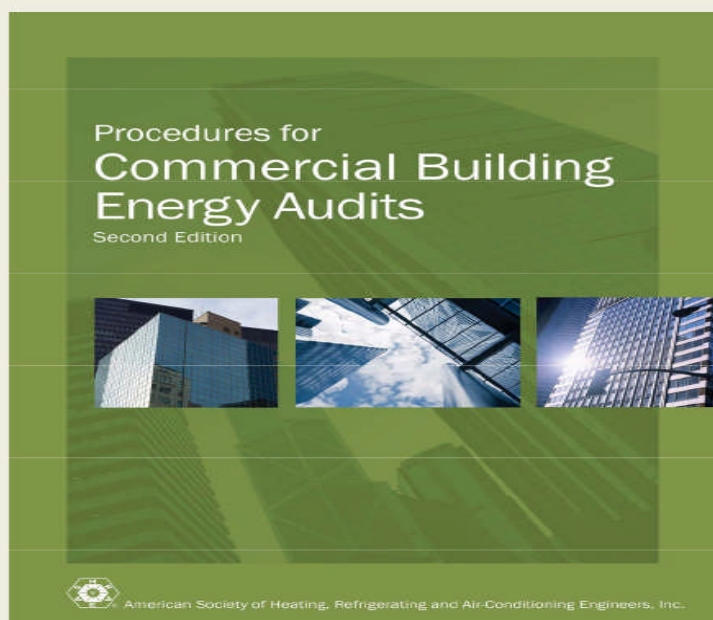
### **Archived Webcast**

If you are unable to participate in the live webcast, the program will be archived online until **May 3, 2012**. Registration will be necessary to view the archived program. You may complete the Participant Reaction Form online at <http://www.ashrae.org/doaswebcast> by **May 3, 2012** and print your Attendance Certificate. Many states and organizations accept viewing the archive and completing the Participation Reaction Form as credit toward continuing education, license renewal, or certification renewal requirements. The individual is responsible for verifying approval from a state or organization. **ASHRAE will not assume responsibility in reporting participation for viewers of the archived program.**

### **DVD**

You may earn PDHs/LUs by purchasing and viewing the webcast DVD. The Participant Reaction Form will be included on the DVD with instructions for completion and submittal to ASHRAE. Upon receipt of the completed Participant Reaction Form, you will be emailed an Attendance Certificate. Many states and organizations accept viewing the DVD and completing the Participant Reaction Form as credit toward continuing education, license renewal, or certification renewal requirements. The individual is responsible for verifying approval from a state or organization. **ASHRAE will not assume responsibility in reporting participation for viewers of the DVD.** Upon request, ASHRAE will provide appropriate support. DVDs will be available in June via the ASHRAE [Bookstore](#).

If you have questions regarding continuing education credits or reporting for the webcast, call (678) 539-1200 or email [ashrae-webcast@ashrae.org](mailto:ashrae-webcast@ashrae.org).



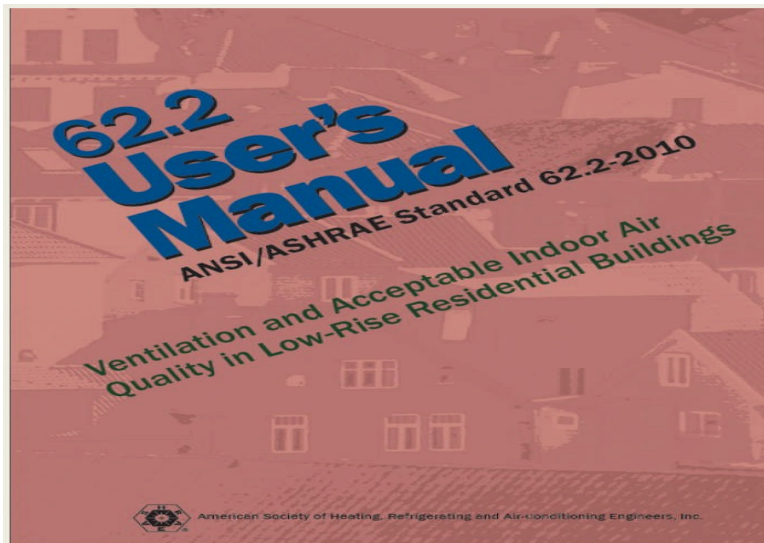
### **Procedures for Commercial Building Energy Audits, 2<sup>nd</sup> ed.**

This reference defines best practices for energy survey and analysis for purchasers and providers of energy audit services. This full-color edition provides updated guidance and tools for energy consulting engineers, LEED professionals, real estate professionals, building owners and building managers. This book details energy auditing methods and provides new sample forms and templates that illustrate the content and arrangement of complete, effective energy analysis reports.

Dual units; softcover; 8.5 x 11 in.;  
162pp; 2011; ASHRAE  
Price: \$99 (ASHRAE Member: \$84)  
Product code: 90450  
ISBN: 978-1-936504-09-1

Purchase at  
[www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)





## 62.2 User's Manual

This is a complete guide to meet the requirements of *ANSI/ASHRAE Standard 62.2-2010, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*. This manual provides explanations for every section of the standard and includes many clear, specific examples covering most sections.

Background material is provided for nine sections of the standard and for three appendices, providing explanations for why many of the standard's requirements are included.

Dual units; softcover; 8.5 x 11 in.;  
488 pp; 2011; ASHRAE  
Price: \$55 (ASHRAE Member: \$47)  
Product code: 90158  
ISBN: 978-1-933742-85-4

Purchase at

[www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)

## ASHRAE GreenGuide

The Design, Construction, and Operation  
of Sustainable Buildings

Third Edition



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

## ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings, 3<sup>rd</sup> ed.

This manual provides help to HVAC&R system designers in designing a green building. It gives the need-to-know information on every aspect of the building process from planning to operation and maintenance of the facility, with emphasis on teamwork and close coordination among interested parties. New topics in this edition are:

- Guidelines on sustainable energy master plan
- Information on how issues related to carbon emissions affect building design and operational decisions
- New GreenTips, including those with green strategies for chilled water plant and boiler plant

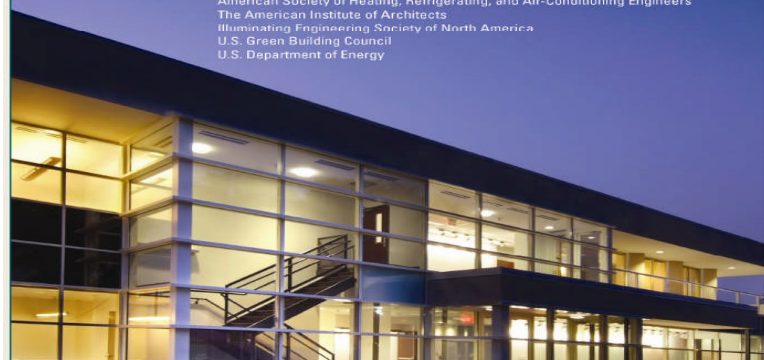
design  
Dual units; hardcover; 6 x 9 in.; 488 pp; 2010; ASHRAE  
Price: \$98 (ASHRAE Member: \$83; Student Member: \$58)  
Product code: 90324  
ISBN: 978-1-933742-85-4

Purchase at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)

## Advanced Energy Design Guide for Small to Medium Office Buildings

Achieving 50% Energy Savings  
Toward a Net Zero Energy Building

Developed by:  
American Society of Heating, Refrigerating, and Air-Conditioning Engineers  
The American Institute of Architects  
Illuminating Engineering Society of North America  
U.S. Green Building Council  
U.S. Department of Energy



## Advanced Energy Design Guide for Small to Medium Office Buildings: 50% Energy Savings

Advanced Energy Design Guide for Small to Medium Office Building is the first in a series designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004. ANSI/ASHRAE/IESNA Standard 90.1-2004 provides the fixed reference point and serves as a consistent baseline and scale for all of the 50% Advanced Energy Design Guides.

I-P units; softcover; 8.5 x 11 in.; 234 pp; 2011; ASHRAE  
Price: \$82 (ASHRAE Member: \$69)  
Product code: 90383  
ISBN: 978-1-936504-05-3

Purchase at

[www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)



# Can you apply the laws of science to the science of laws?



## An exciting California Policy Fellowship opportunity!

The California Council on Science and Technology seeks PhD scientists and engineers to serve as Fellows to provide the California State Legislature with critical, unbiased scientific and technical advice. If you are looking for a professional development opportunity that enables you to incorporate science and technology into public policy, we encourage you to apply for a one-year fellowship.

Applications for the 2012-2013 program will be accepted starting on December 1, 2011 and ending February 29, 2012. For information or to complete an on-line application, visit [fellows.ccst.us](http://fellows.ccst.us).



CALIFORNIA COUNCIL ON  
SCIENCE AND TECHNOLOGY

Fellows,  
class of 2009

Science and Technology in the State's Interest



## Sponsorship of ASHRAE's High Performance Buildings Conference – A Focus on Deep Energy Savings



On March 12, 2012, energy professionals from the building and utility industries will convene at the Marriott Mission Valley near San Diego to kick off ASHRAE's *High Performance Buildings Conference – A Focus on Deep Energy Savings*. These individuals will listen and learn to help set the direction toward market-viable low energy buildings. This is a continuance of the successful Net Zero Energy Conference held in San Francisco in 2009. ASHRAE's award-winning High Performing Buildings Magazine is presenting this conference. For those of you unfamiliar with the magazine you can view in digital form at <http://www.hpbmagazine.org/>

This conference will guide the building design professional, building owner/managers, building operating staff and government officials about what works and what really doesn't work when tackling major improvements in the energy efficiency, renewable applications, and operating practices. Your name tied to this conference will offer these professionals a chance to learn more about what your company is doing and how you are supporting the industry. Please consider partnering with ASHRAE as we seek solutions to energy efficiency challenges

Opportunities for sponsorship are extensive and are included with this letter as well as listed on-site at the conference web site – [www.ashrae.org/HPBconference](http://www.ashrae.org/HPBconference). Companies interested in the \$500 level sponsorship can complete the attached form and return it to [meetings@ashrae.org](mailto:meetings@ashrae.org). All other inquiries can be sent to [gmartin@ashrae.org](mailto:gmartin@ashrae.org) or by calling Greg Martin at 678-539-1174.

Opportunities for sponsorship of a keynote speaker are also available. Your company will recommend a speaker and provide payment for the speaker's travel which will allow your company representative to introduce the speaker and get a 3 minute time slot to address the conference attendees.

If you have any questions regarding *High Performance Buildings Conference – A Focus on Deep Energy Savings*, please contact [meetings@ashrae.org](mailto:meetings@ashrae.org) or call the ASHRAE meetings department at (404) 636-8400.

Many thanks in advance for your support of the conference.



# ASHRAE Learning Institute

## 2012 Spring Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.



#### District Cooling & Heating Systems

Mon, March 19, 2012 – 1:00 pm to 4:00 pm ET

#### Basics of Combined Heat & Power

Wed, March 21, 2012 – 1:00 pm to 4:00 pm ET

#### Evaluating the Performance of LEED®-Certified Buildings

Wed, March 28, 2012 – 1:00 pm to 4:00 pm ET

#### Commissioning Process & Guideline 0

Wed, April 4, 2012 – 1:00 pm to 4:00 pm ET

#### \* Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 9, 2012 – 1:00 pm to 4:00 pm ET

#### \* Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 11, 2012 – 1:00 pm to 4:00 pm ET

\* Take both Standard 90.1 courses and save 20% on the price of these courses



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

#### Humidity Control: Principles and Applications – Part 1

Mon, March 26, 2012 – 1:00 pm to 4:00 pm ET

#### Humidity Control: Principles and Applications – Part 2

Mon, April 2, 2012 – 1:00 pm to 4:00 pm ET

#### Implementing ASHRAE Standard 189.1-2009 – Part 1

Mon, April 16, 2012 – 1:00 pm to 4:00 pm ET

#### Implementing ASHRAE Standard 189.1-2009 – Part 2

Thurs, April 19, 2012 – 1:00 pm to 4:00 pm ET

#### Integrated Building Design – Part 1

Mon, April 23, 2012 – 1:00 pm to 4:00 pm ET

#### Integrated Building Design – Part 2

Wed, April 25, 2012 – 1:00 pm to 4:00 pm ET

## ASHRAE HVAC Design Workshops

2 Workshops, 5 Days of Intense Instruction

May 21-25, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

### HVAC Design: Level I – Essentials

May 21-23, 2012

ASHRAE's HVAC Design: Level I - Essentials workshop provides intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, the workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team. Gain the fundamentals and technical aspects to design, install and maintain HVAC systems.

### HVAC Design: Level II – Applications NEW

May 24-25, 2012

ASHRAE's HVAC Design: Level II - Applications workshop provides advanced instruction on HVAC system designs for experienced HVAC designers or those who completed the HVAC Design: Level I Essentials workshop. Gain an understanding of system design incorporating the application of Standards 55, 62.1, 90.1 and 189.1.

### Creating Effective, Highly Skilled Engineering Team Members

- Gain knowledge to make immediate contributions to design projects
- Participate in in-depth, practice-focused training
- Learn from industry leaders selected by ASHRAE
- Receive free bonus resources valued at over \$200

Attendees of the HVAC Design Workshops can earn continuing education credits. Contact the relevant governing body for more information.



Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

### ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit  
[www.ashrae.org/certification](http://www.ashrae.org/certification)



## WE WANT YOU TO DRINK UP FOR RESEARCH!

THIS SPECIAL OFFER IS ONLY AVAILABLE TO YEA MEMBERS!

MAKE A MINIMUM CONTRIBUTION OF \$25 TO RESEARCH BEFORE DECEMBER 31<sup>ST</sup> AND RECEIVE AN ASHRAE RESEARCH CUP AS A TOKEN OF OUR THANKS!



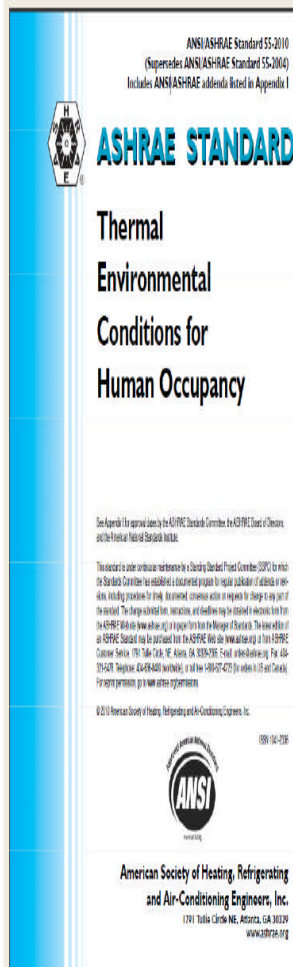
### THESE CUPS:

- ARE DOUBLE INSULATED
- ARE SPILL PROOF
- KEEP HOT DRINKS HOT AND COLD DRINKS COLD
- HAVE A SCREW-ON LID
- HAVE A REUSABLE STRAW

YOU CAN GIVE ONLINE AT [WWW.ASHRAE.ORG/CONTRIBUTE](http://WWW.ASHRAE.ORG/CONTRIBUTE), OR BY RETURNING THE ENCLOSED INVOICE TO HEADQUARTERS.

YOUR CUP WILL BE SENT TO YOU UPON RECEIPT OF YOUR GIFT.

SO DRINK UP YEA!!

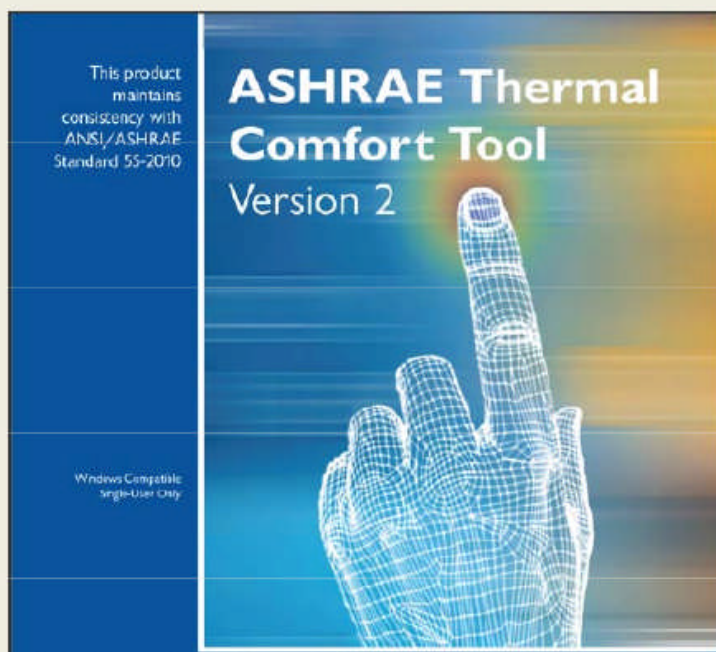


## ASHRAE Standard 55-2010 – Thermal Environmental Conditions for Human Occupancy

The standard outline conditions for environmental thermal acceptability. New updates to the standard include extended provisions for evaluating the impacts of elevated air speed, a new method for expressing and selecting air speed limits, and alternatives for determining the boundaries of comfort at air speeds above 0.15 m/s (30 fpm). It continues to focus on defining the range of indoor thermal environmental conditions acceptable to a majority of occupants, while accommodating an increasing variety of design solutions intended to both provide comfort and to respect today's sustainable buildings.

Dual units; softcover; 8.5 x 11 in.; 40 pp; 2010; ASHRAE  
Price: \$69 (ASHRAE Member: \$59)  
Product code: 86150  
ISBN: 1041-2336

Purchase at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore)



## ASHRAE Thermal Comfort Tool CD, Version 2

The ASHRAE Thermal Comfort Tool, Version 2 provides a user-friendly interface for calculating thermal comfort parameters and making thermal comfort prediction using several existing thermal comfort models. This new version focuses on the Adaptive and Predicted Mean Vote (PMV) Model and has an updated user interface. The ASHRAE Thermal Comfort Tool, Version 2 maintains consistency with ANSI/ASHRAE Standard 55-2010.

Dual units; CD; 2011; ASHRAE  
Price: \$117 (ASHRAE Member: \$99)  
Product code: 94031