



# ASHRAE San Diego Newsletter



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

**REGION X**

**Volume 3, Issue 1**

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

**January 2011**

## January Meeting

**Member Get a Member!!**

**Tuesday, January 11<sup>th</sup>**

**11:30-12:00:** Sign In  
**12:00-12:20:** General Introductions and Announcements  
**12:20- 1:20:** Lunch & Speaker  
**1:20- 1:30:** Raffle & Adjourn

**Where:**

**The Butcher Shop**

5255 Kearny Villa Rd.

San Diego, CA 92123 (858) 565-2272

**Full Details on Page 2**

**Have you checked out the  
NEW and IMPROVED  
ASHRAE website?**

**Visit [www.ashraesd.org](http://www.ashraesd.org) TODAY to get  
everything you need to know on events,  
news. and more!!**

## President's Message

Happy New Year fellow ASHRAE members! I'd like to extend my sincere wishes for a successful 2011. I hope that all of you had a wonderful Holiday season. The Holiday Party was fantastic and I was really impressed with the fine work our volunteers did. It was really great to see such a large turnout with an energetic crowd. Many thanks to Heather Schopplein, Cindy Hyatt and Andy Nash for putting together what is arguably one of the finest Holiday parties around.

February 24 marks National Engineers Week and ASHRAE is the keynote Society. Please take a moment to review the information on p5 and consider submitting worthy candidates for the Awards. We really would like to have some HVAC/R related entries this year.

Now it's time to get 2011 off to a great start. Our Programs continue to offer great value for our members. The next Chapter meeting is at lunchtime at the Butcher Shop on January 11 and we will discuss the challenges of retrofitting existing buildings. I hope to see you there!

Respectfully,

Mark E. Richards P.E.

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**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!**

## ASHRAE San Diego Chapter Meeting January 11th

### "Retrofitting Existing Buildings For Demand Response Energy Efficiency"

Compared with new facilities, existing buildings and plants often have legacy equipment which waste energy, require more maintenance, and incur more downtime. A complete rip-out and replace strategy is cost prohibitive and very disruptive to ongoing operations and occupants.

New non-invasive technologies now allow for retrofits which take minutes to install, and deliver substantial savings with investment payback of less than 18 months. This presentation will cover actual case studies and savings data related to HVAC, Lighting, Steam, and Compressed Air retrofits.

**Attend and Learn** (*bullets of what the attendees can expect to learn*)

- *Inefficiencies in older facilities – HVAC systems, lighting circuits, lighting controls, steam distribution*
- *Why they are so hard and costly to retrofit*
- *New technologies which enable non-invasive auditing and retrofit which qualify for utility incentives*
- *Collecting data for ongoing commissioning*
- *Case studies of actual projects with M&V data*
- *How to achieve payback of 18 months or shorter*

This month's speaker is Harry Sim. Mr Sim is the CEO and founder for Cypress Envirosystems. Previously, he worked for Honeywell as the Global Vice President of Marketing for the Industrial Process Control Business. In addition, Mr Sim has worked for GE Aerospace and NASA Mission Control.

Mr Sim holds BS and MS degrees in Mechanical and Electrical Engineering from Stanford, and a MBA from Insead France.

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

-Eric Glatzl, P.E., LEED AP  
Membership Promotion Chair, 2010-11

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. For those of you reading this article, I do not need to tell you why it is important (and necessary) for you to be members of ASHRAE.

But you can help us recruit new members and spread the word of ASHRAE!

Since our member-get-a-member was such a success at our November meeting, the Board of Governors has decided to make it a standing membership drive program. In other words, any member bringing a non-member to a regular monthly meeting OR tour and this non-member joins ASHRAE Society and the SD Chapter at the meeting, he or she and you will have the meal on us...FREE. 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, Eric Glatzl – Membership Chair, at the sign in desk (I'll be "damn glad to meet you") and I'll take care of you!

Remember, in order to get your free meal(s), you must sign up for ASHRAE and give me your check at the meeting. The check shall be made out to "ASHRAE" and shall be 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.

To help you 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

**1/01: NEW YEARS**  
**1/01: 34<sup>TH</sup> ANNUAL POLAR BEAR PLUNGE, LA JOLLA**  
**1/09: 5<sup>TH</sup> ANNUAL SAN DIEGO RESOLUTION RUN 5K & 15K, MISSION BAY**  
**1/15: 13<sup>TH</sup> ANNUAL DOWNTOWN MULTICULTURAL FESTIVAL, DOWNTOWN**  
**1/15 & 1/16: NATIONAL BASEBALL EXPO, DEL MAR FAIRGROUNDS**  
**1/15 THRU 1/21: SAN DIEGO RESTAURANT WEEK, DOWNTOWN**  
**1/18: MARTIN LUTHER KING, JR. DAY**  
**1/22 & 23: NATIONAL FRANCHISE & BUSINESS OPPORTUNITY EXPO, DEL MAR FAIRGROUNDS**  
**1/23: CARLSBAD MARATHON & HALF MARATHON, CARLSBAD**  
**1/24 THRU 1/30: PGA TOUR GOLF TOURNAMENT, TORREY PINES**  
**1/27 THRU 1/30: SAN DIEGO SUNROAD BOATSHOW, HARBOR ISLAND**  
**1/27 THRU 1/30: SAN DIEGO BLACK FILM FESTIVAL & EXPO 2011, DOWNTOWN**  
**1/28 thru 1/30 : HOME DECORATING & REMODELING SHOW, DEL MAR FAIRGROUNDS**  
**1/29: THE COMPOUND MMA/USA BOXING AMATEUR EVENT, OCEANSIDE**  
**1/29/11-2/2/11: ASHRAE WINTER CONFERENCE, LAS VEGAS, NEVADA**  
**THRU 4/17: WHALE WATCHING SEASON**  
**FIRST FRIDAY OF EVERY MONTH: ART WALK, DOWNTOWN EL CAJON**  
**FIRST SATURDAY OF EVERY MONTH: FOCAS PET ADOPTION, BALBOA PARK**  
**SECOND FRIDAY OF EVERY MONTH: STARS AT MISSION TRAILS (STARGAZING), KUMEYAAY CAMPGROUND**  
**SECOND SATURDAY OF EVERY MONTH: RAY AT NIGHT ART WALK, NORTH PARK**  
**EVERY SATURDAY: FREE FISHING CLASSES, LAKE CUYAMACA**  
**EVERY SUNDAY: SUNDAY ORGAN CONCERT, BALBOA PARK**  
**EVERY SUNDAY THRU MARCH: DOG WALKING GROUP, POWAY**

## 2/25/11: NATIONAL ENGINEERS WEEK BANQUET, USD

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

SAN DIEGO ENERGY RESOURCE CENTER  
8690 BALBOA AVE, STE. 100  
SAN DIEGO, CA 92123

DATE: THURSDAY, 1/06/11, 5:00 PM- 8:00 PM

DATE: TUESDAY, 1/11/11, 9:00 AM- 1:00 PM

DATE: WEDNESDAY, 1/19/11, 11:30 PM- 1:00 PM

DATE: WEDNESDAY, 1/19/11 & 1/20/11, 6:00 PM- 9:00 PM

DATE: TUESDAY, 1/25/11, 1:00 PM- 4:00 PM

DATE: THURSDAY, 1/27/11, 8:00 AM- 3:00 PM

# January





# National Engineers Week San Diego 2011 Awards Banquet

N.E.W. 2011 Theme: Turing Ideas Into Reality

**Friday February 25, 2011, 6–9:30pm**

The Joan B. Kroc Institute for Peace & Justice

University of San Diego Campus

5998 Alcala Park, San Diego, CA 92110

(Free parking at the Joan Kroc Institute and self parking in any adjacent student or faculty lot or street space after 5pm)



## Keynote Speaker: Miriam Goldstein ***The Great Pacific Garbage Patch***

Miriam is a Ph.D. student at Scripps Institution of Oceanography at UCSD studying biological oceanography. For her thesis work, she investigates the distribution and abundance of plastic debris in the North Pacific Gyre, as well as the potential for plastic debris to impact the distributions of invasive species. She has appearances and articles with, among others, CBS News, National Geographic, Associated Press, and Union Tribune.

In August 2009, she served as chief scientist on the Scripps Environmental Accumulation of Plastic Expedition (SEAPLEX). She led a group of doctoral students and research volunteers on a 20-day expedition to study the “Great Pacific Ocean Garbage Patch” with an estimated area the size of Texas.

### **RSVP TO:**

ASHRAE San Diego  
9630 Ridgehaven Ct  
San Diego Ca, 92123  
**Attn:** Carl Bruce Brown  
**Phone:** (858) 357-3101  
**Fax:** (858) 560-0709  
**Email:** Carl.B.Brown@jci.com

**Cost per individual:** \$40

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**ENGINEERS  
WEEK® 2011**  
**FEBRUARY 20-26**

## National Engineers Week in San Diego 2011 February 20<sup>th</sup> – 26<sup>th</sup>

The National Engineers Week Foundation is a formal coalition of more than 100 professional societies, major corporations and government agencies and is dedicated to ensuring a diverse and well-educated future engineering workforce. This is done by increasing understanding of an interest in engineering and technology careers among young students and by promoting pre-college literacy in math and science. National Engineers Week also raises public understanding and appreciation of engineers' contributions to society. Although it is participated in nationally, each major county puts together their own week and San Diego county does just that. The week in San Diego has many events with the culmination being the awards banquet which sponsored by the San Diego County Engineering Council (SDCEC) and hosted on the beautiful campus of the University of San Diego (USD) at the Joan Kroc Institute for Peace and Justice (KIPJ).

### Last year the contributing societies were:

AIAA	American Institute of Astronautics and Aeronautics
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating and Refrigeration Engineers
ASME	American Society of Mechanical Engineers
ASQ	American Society of Quality
CSPE	California Society of Professional Engineers
IEEE	Institute of Electrical and Electronic Engineers
INCOSE	International Council on Systems Engineering
SAME	Society of American Military Engineers
SEAOSD	Structural Engineers Association of San Diego
SHPE	Society of Hispanic Professional Engineers
SME	Society of Manufacturing Engineers
SWE	Society of Women Engineers

Each year one of the many professional engineering societies leads the committee to put on National Engineers Week. This year the general chair is the American Society of Heating and Refrigeration Engineers (ASHRAE) and the theme is "Turning Ideas Into Reality". This year's San Diego National Engineers Week will have events such as Engineers Day at Grossmont Mall and Math Counts at UCSD to go along with the Awards Banquet.

The awards banquet will be on Feb 25<sup>th</sup>. Along with dinner, the night will include giving out awards from around San Diego County in the categories of:

- **Outstanding Engineer**
- **Outstanding Engineering Educator**
- **Outstanding Engineering Project**
- **The Dr. Thomas Avolt Kanneman Outstanding Engineering Service Award**

The night will be capped by the Keynote Speaker: Miriam Goldstein. The very current topic will be "The Great Pacific Garbage Patch". Miriam is a Ph.D. student at Scripps Institution of Oceanography (SIO) at UCSD studying biological oceanography with an M.S. in Marine Biology from SIO at UCSD and a B.S. in Biology from Brown University. Miriam is an active science popularizer and educator, and has appeared on CNN, CBS, NPR Science Friday, and PRI's The World, among many other media outlets. For her thesis work, she investigates the distribution and abundance of plastic debris in the North Pacific Gyre, as well as the potential for plastic debris to impact the distributions of invasive species. In August 2009, she served as chief scientist on the Scripps Environmental Accumulation of Plastic Expedition (SEAPLEX). She led a group of doctoral students and research volunteers on a 20-day expedition to study the "Great Pacific Ocean Garbage Patch" with an estimated area the size of Texas. She will discuss why plastic is accumulating in the remote open ocean, what the "Garbage Patch" looks like, and how it impacts the marine ecosystem based on current scientific research. She will end with a discussion of current efforts to control marine plastic pollution through prevention, legislation, and technology.

# Stay In Touch...

Times goes by and schedules get filled faster than we know, but the ASHRAE San Diego Chapter wants to keep in touch with you and make sure that you are always aware of the latest events, seminars, and that you can reach us at any time. That's why we are always striving to create new ways to stay in touch with our membership. Please visit us at one of the following resources anytime and follow the links to contact one of our board members and/or committee chairs directly:

The San Diego Chapter Website: [www.ashraesd.org](http://www.ashraesd.org)

SD Chapter Facebook Page: <http://www.facebook.com/group.php?gid=238450684264&ref=ts>

SD Chapter YEA Facebook Page: <http://www.facebook.com/group.php?gid=238450684264&ref=ts#/group.php?gid=96582132713&ref=ts>

We hope to hear from you soon and see you at the upcoming monthly chapter meeting! Please do not hesitate to contact our Publicity Chair, Cindy Hyatt, at [cindyh@tmmechanical.com](mailto:cindyh@tmmechanical.com) or our Website Administrator, Devin Abellon, at [Devin.Abellon@uponor.com](mailto:Devin.Abellon@uponor.com) if you have any comments or suggestions for our sites.

## 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.

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## 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





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

The San Diego ASHRAE Chapter would like to thank the following sponsors for their contribution to the 2010 Holiday Party and ASHRAE Research Promotion:



Thank you also to our Raffle Sponsors:

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**Thank you Maritime Museum of San Diego**

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619-234-9153 | [info@sdmaritime.org](mailto:info@sdmaritime.org)  
Open every day of the year - 9:00am - 8:00pm

ASHRAE San Diego offers our sincere  
Gratitude for your help in making the  
2010 Holiday Party and Research  
Promotion Fundraiser  
a great success!

## Holiday Party Raises \$12,000 for ASHRAE Research!!!

On behalf of ASHRAE Research Promotions, we hope that everyone is continuing to enjoy the holiday season and that those of you who were able to join us at the ASHRAE Holiday Party had a great time! With over 100 ASHRAE members and guests in attendance at the Hard Rock Café in downtown San Diego, our chapter was able to raise over \$12,000 for ASHRAE research!!! Thank you so much to all of our event sponsors and those of you who donated raffle prizes. Raffle winners left the event with prizes including autographed sports memorabilia, a weekend get-away, a dinner cruise, flight lessons, a Nintendo Wii, IPODs, gift cards, an autographed guitar, and much more! Likewise, we were honored with the presence of several Marines who collected an abundance of toys donated by our guests to the Toys-for-Tots program. Cards and chips were flying at the "casino-night" themed event which featured gaming tables throughout the venue and spirits flowed at the hosted bar. Please see the photos (below)(on the following page) for a small taste of the fun-filled evening and check-out our website for more pictures which will be posted shortly. Thank you again for to all who attended and helped make our celebration and fun-raising evening such a success! Best wishes in the New Year and we hope to see you all again soon.





## 2010-2011 OFFICERS & CHAIRS

### OFFICERS:

**President: Mark E. Richards, P.E.**  
Emery Mechanical Engineering, Inc.  
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**President-Elect: Dennis Christie**  
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**Secretary: Rebecca Haehn**  
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**Treasurer: Heather Schopplein, P.E.**  
Ph: (707) 318-4307  
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### BOARD OF GOVERNORS:

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- Process Chillers

## Update your Bios and Upgrade your Membership on ASHRAE.org

Have you been a member of ASHRAE for ten, fifteen, even twenty years, and your Membership certificate and card stills says, "Associate Member?" Wouldn't you like that to say "MEMBER" instead?

You can, easy...for free...and all it takes is about ten minutes of your time. AND...you can do it anytime, anywhere with internet access. Here's how:

1. Update your member bio / profile at [www.ashrae.org](http://www.ashrae.org)
2. Send an email to [membership@ashrae.org](mailto:membership@ashrae.org) and say the following: "I have an updated bio and wish to be considered for member grade advancement. Please review my biographical information at your earliest convenience."
3. Wait about a month and receive your NEW certificate in the mail declaring your grade as "MEMBER."
4. Frame new certificate and be the envy of all your co-workers.

Seriously, that's all you need to do. It costs you nothing. You have to print and mail nothing. You have to call nobody. Do it all online and via email when you have a few minutes and you're good to go.

What happens once you become an actual member? Well, you can now become a Chapter officer if you so choose, or even, become active at a Regional or National level of ASHRAE. Exciting stuff.

If anyone has any questions, comments, or concerns about ASHRAE Membership, please do not hesitate to contact me at 858-244-0360 or email me at [eglatzl@syska.com](mailto:eglatzl@syska.com).



In the HVAC&R industry, economizers are used to reduce heating and cooling costs. The ASHRAE scholarship program also serves as an economizer, helping reduce the financial burdens of obtaining your engineering education. Without *you*, the future leaders of the HVAC&R industry, we at ASHRAE wouldn't be able to do what we do. So through our scholarship program, we aim to help you do what *you* do—learn. Apply today!

ASHRAE has awarded nearly 200 scholarships during the past 20 years totaling more than \$925,000. Nearly \$80,000 in scholarships is available for the 2011-12 academic year.



ASHRAE is offering two scholarships for high school seniors entering their freshman year of college.

[www.ashrae.org/scholarships](http://www.ashrae.org/scholarships)—Apply Today!

"ASHRAE's scholarship has helped me cover my tuition expenses and materials, giving me the opportunity to satisfactorily fulfill my undergraduate degree. Not only has the help been economical, but it also helped me develop a genuine interest in this field. With this aid, I only have to focus on being well prepared so I can become a change agent within the HVAC&R industry. For this reasons I'm extremely grateful to ASHRAE and hope they'll continue supporting future engineers."



*Jacob Vazquez, ITESM (Instituto Tecnológico y de Estudios Superiores de Monterrey) (Mexico), Region VIII Scholarship*



"The Reuben Trane scholarship has solidified my involvement in the HVAC industry and been instrumental in financing my education. It has opened doors for me to further integrate ASHRAE into my educational experience. As well, it has sparked the creation of the first McMaster University ASHRAE Student Branch, bringing my education even closer to the tremendous support and resources available through the ASHRAE network. I look forward to a long career in the HVAC industry."

*Benjamin Oliver, McMaster University (Canada), Mechanical Engineering and management, Reuben Trane Scholarship*

## Application deadlines

**Dec. 1, 2010**-undergraduate engineering, regional and university-specific scholarships

**May 1, 2011**-undergraduate engineering technology scholarships and high school seniors scholarships

Other great resources to help you in engineering your future can be found at the [ASHRAE StudentZone](#)



**The ASHRAE San Diego Chapter would like to welcome the following members of the Chapter whom have recently joined the Chapter:**

- Mr. Nate Eppley – Randall Lamb
- Mr. Michael Carlomagno – DEC Engineers
- Mr. Joseph Marca – Marca-Tects
- Ms. Jessica Woodson – Baker Electric, Inc.
- Mr. Shoumi Sen – Schneider Electric
- Mr. Andrew Tomsik – Victaulic
- Mr. Patrick Butler – General Electric
- Mr. Aseem Anand Gupta – PBS Engineers, Inc.
- Ms. Andrea Alise Miramontes
- Mr. Vincent Gagliardo
- Mr. Chris Stewart – Pacific HVAC Service
- Mr. Elgin Rowland
- Mr. Brian Seiderman
- Mr. Jared Peters – Ingersoll Rand
- Mr. Glen Gallo – Red E<sup>3</sup> Energy Efficiency Experts
- Mr. David St. Pe – Pacific Rim Mechanical
- Mr. Khalaf Almasarweh – Atlas Heating & Ventilating Co.
- Mr. Travis Wagner – CRB Consulting Engineers, Inc.
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- Mr. David Bayhurst – Ambient Air Control Systems, Inc.
- Mr. Alex Mathers, III – Qualcomm
- Mr. William Eason
- Mr. Robert Perry – Perry Consulting Group, Inc.
- Mr. Jose Sanz – Viejas Casino
- Ms. Dawn Landon – US Navy

**If you see any of these individuals at any future meeting, please join me in welcoming them to ASHRAE San Diego!**

If anyone has any membership questions, please feel free to contact Eric Glatzl, P.E. at 858-244-0360 x307 or email at [eglatzl@syska.com](mailto:eglatzl@syska.com).



# ASHRAE Holds the Sustainability Cards

Join ASHRAE at the 2011 Winter Conference, Jan. 29–Feb. 2, Las Vegas, Nevada



## A full-house of professional and personal development activities are offered!

**Technical Program**—focused on the efficient use of energy, the greening of the industrial base, the real cost of zero-energy design

**Virtual Conference**—if you can't make it to Las Vegas, don't miss out on the knowledge shared in the technical program with the Virtual Conference

**AHR Expo**—the ASHRAE co-sponsored AHR Expo takes place Jan. 31–Feb. 2 at the Las Vegas Convention Center. [www.ahrexpo.com](http://www.ahrexpo.com)

**ASHRAE Certification**—launch of a sixth certification program, targeting building energy assessors. Five existing certification programs also offered

**ASHRAE Learning Institute**—offers six Professional Development Seminars and 14 Short Courses – includes a new course on building energy modeling and updates to courses covering Standards 62.1 and 90.1

Register before  
November 5 and **SAVE!**

The early bird fee is \$505  
(\$685 non-members)



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

**ATLANTA**—Las Vegas, Nev. continues to build upon its reputation as a vibrant showcase for the extraordinary by offering the grandest hotels, the biggest stars in entertainment and, of course, the brightest lights. It's no wonder that the world's biggest HVAC Expo and the largest membership-based HVAC&R engineering society have chosen the city as the site of the ASHRAE 2011 Winter Conference and AHR Expo.

The extravagant setting of Las Vegas serves as a unique contrast to ASHRAE's Winter Conference theme of A Safe Bet: Zero-Energy Design. It is sure to highlight the importance of finding the balance in design. The 2011 Winter Conference takes place January 29–February 2 at the Las Vegas Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run January 31–February 2. The Expo is held at the Las Vegas Convention Center, a short distance from the Hilton, the Conference headquarters hotel.

In keeping with ASHRAE's goal of continuing education the Conference offers over 200 Professional Development Credits, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than 90 programs and 300 speakers addressing the efficient use of energy in new and existing buildings, refrigeration updates, applications including data centers, laboratories, healthcare facilities, the real cost of zero-energy design and other topics related to design, standards, codes and professional skills. Nearly all of the technical program sessions will be approved for NY PDHs and by USGBC for GBCI CE hours for LEED professionals. The Las Vegas Virtual Conference, included with paid attendees' registrations, will be available to non-attendees.

Six Professional Development Seminars and 14 Short Courses are offered to help industry professionals stay up-to-date on industry trends. ALI offers a new course on building energy modeling that focuses on HVAC&R systems and updates to courses covering Standards 62.1 and 90.1 to reflect changes in the 2010 versions of these standards from previous versions.

Additionally, ASHRAE continues to listen to the market and launches a sixth certification program in conjunction with the 2011 Winter Conference. This new program targets Energy Assessors/Energy Auditors and is appropriate for those individuals who perform energy assessments or audits for commercial, industrial or residential buildings. More information can be found at [www.ashrae.org/certification](http://www.ashrae.org/certification).

This winter's technical tours spotlight how technology developed by ASHRAE members is practically applied to buildings and include the central plant at Planet Hollywood and MGM Center and Springs Preserve.

When members are not attending courses at the Conference, observing the technological advancements featured at the AHR Expo or touring the local sustainable buildings there are numerous general tours such as Hoover Dam, Springs Preserve, the Venetian Grand Canal Shoppes, the Bodies and Titanic exhibits and the Las Vegas Strip.

Those who take part in the early-bird registration before December 31 have the opportunity to save up to \$195. Complete information is available at [www.ashrae.org/lasvegas](http://www.ashrae.org/lasvegas).

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



**Jan. 31- Feb. 2, 2011**  
**Las Vegas Convention Center**  
**Las Vegas, Nevada**

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# Your ASHRAE Chapter

AO1

Or Register FREE Online at: [www.ahrexpo.com](http://www.ahrexpo.com)

Register Online by January 2, 2011 Deadline - to have your badge mailed to you!



**JANUARY 31 - FEBRUARY 2, 2011**  
**Las Vegas Convention Center, Las Vegas, NV**

### SHOW DATES AND HOURS:

Monday, January 31 .....	10:00am - 6:00pm
Tuesday, February 1 .....	10:00am - 6:00pm
Wednesday, February 2 .....	10:00am - 4:00pm

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No one under 16 admitted. 16-17 must be accompanied by an adult.



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Member for more information!**



## ASHRAE San Diego Foundation Election Results

The following were elected to the board of the ASHRAE San Diego Foundation. ASDF terms begin January 1<sup>st</sup> and run concurrent with the calendar year.

Mike Frazier – Curb & Vent Manufacturing

Walter Houle – ECS Control Systems (immediate past chapter president)

Jim McKinley - Retired

Chuck Poindexter - Savings By Design, SDG&E

Bill Reagan – Q Applied Systems, Corp.

Verle Williams – Utility Services Unlimited, Inc.

Congratulations to Juanita Warner who was randomly selected from the ASDF voting pool as the gift certificate winner! Thanks to all who voted. The ASDF is always seeking individuals interested in helping with managing the long term charitable finances for the benefit of the chapter and the community at large.