



ASHRAE San Diego Newsletter



REGION X
www.ashraesd.org
Volume 6, Issue 2

THE UPBLAST

February 2014

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President's Message

January has been a whirlwind month, and time has seemed to slip by me. So I will take what I learned from ASHRAE New York, that "in ASHRAE borrowing is encouraged", and apply it to my article.

I spend a lot of time discussing at ASHRAE at our local level, so I will take this opportunity to look beyond San Diego and discuss technical committees (TC's). "The technical expertise of ASHRAE is concentrated in its Technical Committees (TCs), Task Groups (TGs), Technical Resource Groups (TRGs) and Multidisciplinary Task Group (MTGs). These groups are responsible for:

- preparing the text of ASHRAE Handbook chapters
- originating, coordinating, and supervising Society-sponsored research projects
- presenting programs at ASHRAE meetings
- reviewing technical papers
- evaluating the need for standards
- and advising the Society on all aspects of the technology it embraces

ASHRAE TCs consist of people who have a recognized proficiency in a specific field of interest. TGs are formed when a subject of current interest is not covered in the scope of an existing TC or when the subject encompasses the scope of more than one TC. TRGs responsibilities are limited to preparing, reviewing, or revising technical material. They do not have responsibility for programs, research, or standards. MTGs are different from TCs, TGs, and TRGs. The objective of the MTG is to first try and better coordinate and focus the activities of the affiliated TC and non-TC groups that make-up the MTG on the task for which the MTG was created without duplicating the functions of a TC or TG so that the task can be completed as efficiently as possible.

If you have further questions about TC Committee membership or TC Committee operations, please see [Applying for Membership on a Technical Committee](#).



Also, don't forget that Engineers Week is February 16-22! Look for the flyer later in the newsletter.

Heather Schopplein, PE
ASHRAE San Diego President, 2013-2014

February ASHRAE Meeting - Laboratory / Bench Top Ventilation

When: 5:00pm, Tuesday February 11th, 2014 (DINNER MEETING)

Where: The Butcher Shop
5255 Kearney Villa Rd
San Diego, CA 92123

Cost: ASHRAE Member – \$40 (after Jan. 7th)
Non-Member – \$50
Retired/Student – \$20



This informative presentation will cover the purpose of lab ventilation, lab hoods vs. source capture arms, basic engineering and sizing, filtration options and controls and energy saving devices.

In addition to laboratories, bench top ventilation and source capture arms have applications in a number of sectors, including:

- Source Capturing Industrial Contaminates
- Pharma / Biotech
- Vitamins / Supplements
- Food and Beverage
- Soldering / Welding
- Wood Working

Lecturers: Bob Hotchkiss has over 15 years' experience in the specialty ventilation, filtration and dust collection industry. He currently works for Nederman Corporation as the Western Regional Manager and is responsible for the sales and distribution network in the largest geographical territory in the US. Bob has actively worked on projects in microelectronics, pharmaceutical, laboratory, cosmetics, food and beverage, wood working, metalworking, composites, vehicle exhaust and most other manufacturing sectors. His experiences include being a Graduate of the Industrial Ventilation conference, a member of an international product development group for new product design, and a Lecturer to various groups including the American Welding Society and the International Ironworkers on ventilation techniques and regulatory issues. Bob lives in Southern California with his wife of 16 years and three children and enjoys coaching soccer, geocaching and working on his homebrews.

To register for the February Meeting visit [click here!](#)

Save the date: 2014 ASHRAE Meetings!

02/11/2014 – Laboratory / Bench Top Ventilation

Robert Hotchkiss with Nederman

03/18/2014 – Joint Meeting with Orange Empire Chapter!

04/08/2014 – Site visit / Distinguished Lecturer

05/13/2014 – Site visit / Distinguished Lecturer

06/10/2014 – Installation & Awards Dinner

Interested in becoming more involved with ASHRAE through joining or chairing a Committee or becoming a Chapter Officer?

To find out how, contact one of the existing Chairs or Officers or visit www.ashraesd.org!



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2014 Winter Conference and AHR Expo in New York!

Conference Jan. 18–22 | AHR Expo Jan. 21–23

www.ashrae.org/newyork



Highlights!

Eric Sanchez
Johnson Controls
Membership Promotion Chair



I attended the ASHRAE Winter Meeting at New York City as part of the Region X LeaDRS Program. The program allowed me to shadow the DRC of Region X, Michael Burgess, and attend the Plenary Session, Welcome Party, multiple Board of Directors Meetings, Board of Directors Leadership Luncheon, Region X Dinner, YEA mixer, President's Luncheon, a meeting with ASHRAE President Bill Bahnfleth, Members Council Meeting, Member's Night Out, Board Reception and, of course, the AHR Expo. The DRC attends Board meetings and prepares countless hours prior and during the conference with various members of the Society and Region. This experience allowed me to see firsthand the dedication and pleasure our DRC has to make our region better every year.



Cindy Moreno
T&M Mechanical

ASHRAE Region X YEA Regional Coordinator
ASHRAE San Diego Chapter Welcoming/Attendance Chair



We (heart) New York!

To say that San Diego was well represented at the ASHRAE Conference and AHR Expo in New York City this January is an understatement! We may be a beach city with more surfboards than snowplows, but we took the below freezing temperatures like champs and made sure that ASHRAE and AHR knew that San Diego was in the house. In fact, almost everyone that I spoke with at both venues commented "Wow, there's a lot of people from San Diego here, isn't there?" The simple answer: YES, there sure was! As you will see in other points of this newsletter, San Diego was present in many capacities, ranging from ASHRAE Technical Committee participation and Leadership U attendance to sales meetings and AHR Expo exhibitors; we continue to make our mark in the industry and let them know that we are a powerhouse of HVAC. Nonetheless, it is also a part of the San Diego culture that it should never be all work and no play, so our Chapter President, Heather Schopplein did us a great service in planning a San Diego happy hour to relieve some tensions and find out just who else was in attendance in New York City. On Monday, Jan 20th, over 30 San Diegan's got together to relax and share some laughs at the Whiskey Trader in Midtown Manhattan. And laugh we did! We had a wonderful time and a great show of familiar faces. Cheers to many more and best wishes to ALL of our chapter members for a fun and prosperous 2014!

Tiffany Bates
Clima-Cool

Region X Research Promotion RV



In NYC I was able to attend the Presidents Luncheon where we recognize & honor the Gold & Platinum (\$10K & \$20K) RP Investors and well as the recipient of the Pinnacle Award, the Rocky Mountain Chapter who raised over \$70K last year for RP! I was also able to attend the RP RVC annual meeting to get updates on the progress of this year's campaign. The Society RP Goal this year is \$2.1 million to help support the ongoing yearly \$16-18 million required to keep funding worthwhile research projects that keep our industry handbooks, standards, & guidelines accurate and up to date. Every dollar that is invested goes straight to research projects. So far, half way through the campaign, \$593K has been raised or about 26% of goal. The Region X goal is \$180K of which \$58K has been raised so far, or just over 20%. The San Diego Chapter is above this average having already raised almost \$10K, or 32% of our chapter goal of \$30,000! The San Diego Chapter has received PAOE points so far for attending RP Centralized Training, Achieving Full Circle (\$100 personal donations from the chapter leaders), Recognizing our Chapter Donors, & Holding Special Events to raise money for RP (if you missed the holiday party make sure you don't next year!). In the Spring the chapter will continue the campaign strong by holding an RP Promotion meeting, Calling Campaigns, and by achieving our \$30,000 goal with all of the help of our member before the June 15th deadline. Thank you San Diego Chapter for supporting ASHRAE RP and scholarships! I am happy to be a part of such an active, wonderful chapter!

2014 Winter Conference and AHR Expo in New York!

Conference Jan. 18–22 | AHR Expo Jan. 21–23

www.ashrae.org/newyork



Highlights!



New York!
New York!



Dressed to the nines for
Members Night Out!



Moving the HVAC industry
forward with TC's!



Hospitality events at the
best venues in town!



Networking with ASHRAE across
the country (and Canada too)!



Factory tours to see how it's made!

2014 Winter Conference and AHR Expo in New York!

Conference Jan. 18-22 | AHR Expo Jan. 21-23

www.ashrae.org/newyork



Highlights!



ASHRAE San Diego
Happy Hour @

WHISKEY TRADER
BAR & LOUNGE



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- Flow Control Valves

ASHRAE San Diego - BLAST FROM THE PAST...

ANOTHER OUTSTANDING TECHNICAL PROGRAM BY THE SAN DIEGO CHAPTER: ASHRAE —

The Direct Digital Control Seminar was an outstanding technical program. The seminar was held on Thursday, 8 December 1988, at the University Mechanical Main Conference Room. Forty-one attended the seminar, and most of the attendees were extremely pleased with the program. Honeywell Corporation was the co-sponsor of the program and provided technical handouts. The speakers were:

Lyle Willis, PE	ASHRAE
Dave Olson, PE	Honeywell Corporation
Mark Warren, PE	Honeywell Corporation
Rob Maggiore	Honeywell Corporation

The following were involved in organizing this program:

Frank Shadpour, Ruth Morrow, Gary Schultz, Susan Hildebrand and Pete Menconi.

Submitted by —
Frank Shadpour, PE

PICTURES:

Top Right: ASHRAE officials at the registration desk of Direct Digital Control Seminar:
Susan Hildebrand and Gary Schultz



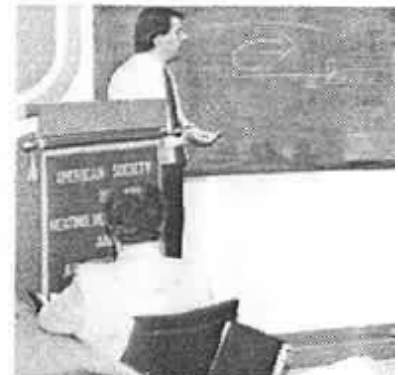
Center: Speakers and ASHRAE officials at the Direct Digital Control Seminar:

Lyle Willis,
Dave Olson
Frank Shadpour
Mark Warren
Rob Maggiore



Below Left:
Some of the attendees at the Direct Digital Control Seminar. Most of the people who attended were pleased with the program.

Below Right:
Dave Olson explains some of the fundamentals of Direct Digital Controls.





Starting July 1st, 2014,
California's Title 24 will require
commissioning on all buildings
over 10,000 ft²!

Continuing
Education
Credits!

6 PHD's

The Commissioning Process in New and Existing Buildings

This introductory course focuses on how the building commissioning process can be applied cost-effectively to new construction and to existing facilities, with a strong emphasis on existing facilities applications. In this course, you will learn the fundamentals of the commissioning process through each step of a new construction project from predesign to occupancy and operations. You will also learn how the application of the commissioning process in existing facilities differs from new construction. Learn about the benefits of commissioning and gain an appreciation for how the process can improve the built environment, reduce environmental impacts through responsible resource utilization, improve the quality of design and construction, and raise the professional reputation of the entire commissioning team. We will discuss commissioning documentation, including an overview of commissioning specifications for new construction. You will take away compelling information and case studies that demonstrate the value of investing in the commissioning process. ALI Course Instructor: Rick Casault, P.E., President of Seattle-based Casault Engineering.

Friday May 9th, 2014

Check In begins at 8:30 AM*

Program 9:00 AM – 4:00 PM

Continental Breakfast Provided

Lunch Provided

Location:

SDG&E Energy Innovation Center
4760 Clairemont Mesa Blvd.
San Diego, CA 92117

\$225 (Members)**

\$275 (Non-Members)**

Includes Course Materials

Compare to **\$395 for Members and \$485 for non-members if taken at the ASHRAE Conference!!

Registration

First Name _____

Email _____

Chapter _____

Last Name _____

Phone # _____

Member Number _____

Recommended Publications (Not Included in Course Cost)

Guideline 0-2005 The Commissioning Process Cost: \$29 (compare to \$59-list)

Guideline 1.1-2007 HVAC&R Technical Rqmt for Cx Process Cost: \$29 (compare to \$69-list)

Standard 202-2013 Cx Process for Buildings and Systems: \$40 (compare to \$69-list)

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

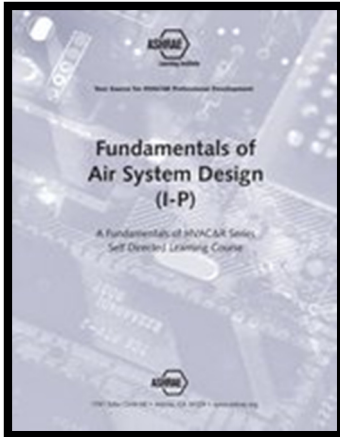
Email Registration to Andrew Nash at anash@umec.com or Fax to 619-956-2300, Attn: Andy Nash
Invoice will be emailed upon Receipt of Registration

ASHRAE Group Learning-

Fundamentals of Air System Design

Continuing
Education
Credits!

Course Goal: You will develop an understanding of the basics of air movement; the components of air distribution systems; considerations of human comfort; load and occupancy demand; duct system design; sound and vibration; and how codes and standards affect the design of air systems. After completing the course, you should know:



- The functions of the components of an air distribution system, including major equipment types and auxiliary components.
- The principles of air distribution as they relate to human comfort.
- The principal codes and standards affecting air system design.
- How to layout and size a simple duct system and calculate pressure losses in the system.
- Common methods for reducing airborne sounds in systems
- How to start an air system and diagnose common problems associated with air system start-up.

Course Schedule:

3/06/14:	Chapter 1: Fundamentals of Air Flow
3/13/14:	Chapter 2: Air Distribution System Components
3/20/14:	Chapter 3: Human Comfort and Air Distribution
3/27/14:	Chapter 4: Relationship of Air Systems to Load and Occupancy Demands
4/03/14:	Chapter 5: Exhaust and Ventilation Systems
4/10/14:	Chapter 6: Air Movers and Fan Technology
4/17/14:	Chapter 7: Duct System Design
4/24/14:	Chapter 8: Codes and Standards
5/01/14:	Chapter 9: Air System Auxiliary Components
5/08/14:	Chapter 10: Sound and Vibration in Air Systems
5/15/14:	Chapter 11: Air System Start-Up and Diagnostics
5/22/14:	Chapter 12: An Actual Duct Design Problem
5/29/14:	Certificate Award Dinner – Location TBD

Location:

SDSU Extended Studies Center, Room 113/115
5701 Hardy Ave, San Diego, CA 92182

Time:

6:00 PM – 7:30 PM

Course Website:

Fundamentals of Air System Design

(<http://events.constantcontact.com/register/event?llr=j9aahecab&oeidk=a07e8vgjqgo511b8708>)

Questions: Heather Schopplein at hschopplein@gmail.com or 619-988-5285

**Register by
02/14**

\$250 per person
Includes Course Materials



ASHRAE San Diego March Volunteer Event

When (NEW DATE): March 13, 2014 6-8 p.m.

Where: San Diego Food Bank, 9850 Distribution Ave.

Number of Volunteers Needed: 10-12



The Jacobs & Cushman San Diego Food Bank is the largest hunger-relief organization in San Diego County. Last year, the Food Bank distributed nearly 20 million pounds of food, and the Food Bank served, on average, 320,000 people per month in San Diego County.

The Food Bank works to acquire, store, organize, and distribute food through a network of 330 nonprofit partner organizations that include food pantries, soup kitchens, homeless and residential shelters, youth programs, senior centers, and low-income daycare centers in communities throughout San Diego County. The Food Bank also distributes food directly to those in need at over 150 distribution sites throughout the county.

WHAT'S ASPE-SD UP TO?

February 18th – ASPE Seminar: Grease Interceptor System Design

12:00 PM ~ 3:30PM

5440 Kearny Mesa Road, San Diego, CA

February 18th – ASPE Annual Trade Show

3:30PM ~ 7:30 PM

5440 Kearny Mesa Road, San Diego, CA

Free Admission!

For more info or to register, go to:

<http://www.aspesd.org/>



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



Erik Sanchez
Johnson Controls
Membership Promotion Chair, 2013-14

Have any co-workers at your office who are not currently members in ASHRAE? Explain to them why you're a member & the benefits you enjoy, and then bring them out as your guest to our next meeting! If they join, both you & your guest will receive lunch on us as part of our Member-Get-A-Member program. Just contact me, Erik Sanchez, at Erik.D.Sanchez@jci.com or come find me at the next meeting.

If you are an industry professional with 8 or more years of "equivalent industry experience," you are eligible to upgrade your membership status from Associate to Member at NO ADDITIONAL COST... Contact me to find out how!

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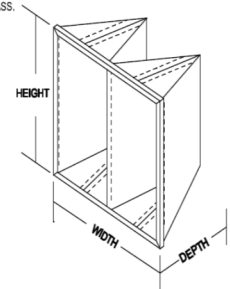
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SPECIFICATIONS

1. OSA MIST / MOISTURE SEPARATOR
2. HIGH PERFORMANCE SYNTHETIC MEDIA - ANTIMICROBIAL TREATED
3. MEDIA IS BONDED TO THE ENTIRE PERIPHERY OF THE HEADER ELIMINATING AIR BYPASS.
4. MERV 8: ASHRAE 52.2 (LEED)
5. EFFICIENCY: 30% - ASHRAE 52.1
6. ARRESTANCE: 90% - ASHRAE 52.1
7. INITIAL PRESSURE DROP - 20" W.G. (LEED)
8. UL CLASS 2

SIZES

1. NOMINAL FILTER SIZE: 24" x 24" x 12" (MODEL CC242412)
2. NOMINAL FILTER SIZE: 20" x 24" x 12" (MODEL CC202412)
3. NOMINAL FILTER SIZE: 12" x 24" x 12" (MODEL CC122412)



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Office: 951.302.9030

Start Spreading the News!!!

Something exciting to share? Have you or one of your ASHRAE friends or co-workers accomplished or experienced something noteworthy recently? Let us know all about it!

The San Diego ASHRAE Chapter is dedicated to keeping our community in touch. So please let us know if you have had any big changes or additions, or know



someone who has: Had a baby? Get Married? Newly Divorced, single and ready to mingle?

(hey, you have the right to celebrate too, if it's that kind of party) Received a Degree? Win the Showcase Showdown on the Price is Right? You get the idea ☺



Contact our Newsletter Editor, Calina Ferraro at CFerraro@RandallLamb.com, and she will include your content appropriate updates on the members page of our monthly newsletter. We'd love to hear from you.

ASHRAE GreenGuide: Four Editions, 10 Years, 158 GreenTips: e-book Made Available

ATLANTA – When the first edition of the “ASHRAE GreenGuide” was first published 10 years ago, guidance on how practice green building design was not so readily available. The newly published fourth edition of the “ASHRAE GreenGuide” contains updated guidance that reflects how green building practices as well as the industry have changed, according to Lawrence.

“ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 4th Edition,” uses an integrated, building systems perspective to provide need-to-know information on what to do, where to turn, what to suggest, and how to interact with other members of the design team in a productive way.

The release of the Guide was announced today during ASHRAE’s 2014 Winter Conference taking place in New York. For more information, visit www.ashrae.org/greenguide.

Lawrence said the guide contains several changes that will impact green building design. First is a complete revision of the indoor environmental quality (IEQ) chapter with much of the content based on the *Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning*.

“While it is challenging as well as important to provide good indoor environmental quality in an energy efficient manner, in some cases the most effective means to improve IEQ can also save energy,” he said. “IEQ should not be sacrificed strictly to obtain energy use reductions. After all, the purpose of such buildings is to support the activities for which the building exists and to do so in a manner that does the least harm to the environment while enhancing the health and well-being of the human occupants.”

Another change is a new chapter on sustainable sites. While site issues may be outside the normal purview of most typical ASHRAE members, Lawrence notes that site sustainability is an important part of the design process of the future sustainable built environment. The chapter provides a summary of the key issues in the following topical areas:

- Where to locate the building project
- Landscaping
- Urban heat island effect
- Exterior lighting/light as a pollution source
- Storm water management

As in previous editions, the book contains GreenTips, or which are sidebars containing information on techniques, processes, measures or systems. There are 44 GreenTips in this edition, including new ones on topics such as condensing boilers, rain gardens, green roofs and data centers.

The book now also contains figures printed in color, making them easier to read.

The cost of the print book and the e-book is \$103 (\$87, 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.



Contribute to the Newsletter!

Contribute to the newsletter and promote your company for free...

When you send in a contribution to the newsletter, we'll post your company's business card sized ad for free. 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 cferraro@randallamb.com.

Or you can advertise as follows:

Business Card 6 Issues; \$80

Half Page (4.9" tall x 7.25" wide) Ad 1 Issue; \$50

Full Page (9.8" tall x 7.25" wide) Ad 1 Issue; \$100

Business Card 12 Issues; \$140

Half Page (4.9" tall x 7.25" wide) Ad 3 Issues; \$125

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 1st. Email submissions to: cferraro@randallamb.com please include "ASHRAE SD Newsletter Ad" in the subject line.

The YEA Pages!

YEA San Diego is for young professionals in our industry who are 35 years of age or younger. This group will focus on issues more relevant to those who are relatively new to the industry.

If you have any questions, comments, suggestions or would like to be added to the email list for future events, please let me know

Greg Horman

YEOSanDiego@gmail.com

ASHRAE San Diego YEA Chair



See

<http://www.ashraesd.org/yea.html>
for upcoming YEA events & info

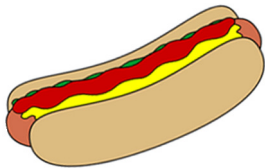
DiscoverE – National Engineers Week!

National Engineers Week is the third week of February. It is observed by more than 70 engineering, education, and cultural societies, and more than 50 corporations and government agencies. The purpose of National Engineers Week is to call attention to the contributions to society that engineers make. It is also a time for engineers to emphasize the importance of learning math, science, and technical skills.



The National Engineers Week Foundation is a formal coalition of more than 100 professional societies, major corporations and government agencies dedicated to ensuring a diverse and well-educated future engineering workforce. This is done by increasing awareness and interest in engineering and technology careers among young students and by promoting pre-college literacy in math and science. The culmination of the weeklong events will be the awards banquet on February 28th at the University of San Diego (USD) Hahn University Center. Dr. Todd P. Coleman will be the keynote speaker at the event. Dr. Coleman is a leader in the studies of neural to computer interaction. ASHRAE will be sponsoring two tables at the event. If anyone is interested in attending the banquet or has any other questions about National Engineer Week, please contact Sean Rodgers, sean@vertisys.net or by phone at 619-261-4376. If you would like to sponsor your own table of 8, sponsorship price is \$500 which includes dinner. Any more info can be found on San Diego Engineer Week foundation's website, <http://www.new-sandiego.org/home.html>.

Coming in March...



FIESTA ISLAND BONFIRE

Watch for an email with more info or
check back in next month's newsletter!



Questions? Email us: YEOSanDiego@gmail.com



The YEA Pages!

ASHRAE's Leadership U

Leadership U allows four lucky YEA members to experience an ASHRAE conference like an Officer by shadowing one of Society's current officers and participate in all of their events and board meetings, including social activities. It is also a great opportunity to network and form connections with those active in ASHRAE.



Cindy Moreno

T&M Mechanical

ASHRAE Region X YEA Regional Coordinator

ASHRAE San Diego Chapter Welcoming/Attendance Chair

Privileged. If asked to provide one word to summarize my Leadership U experience, it would have to be privileged. There are so many highlights and opportunities that came with Leadership U that I could come up with literally thousands of words to describe the conference in New York City, but I don't think anyone wants to read my epic version of the near-week journey so I'll try to keep this concise.

For starters, you may be wondering why I choose to call it a "journey", but for me, that is exactly what Leadership U has been. From the moment that I received the letter of acceptance and began planning, straight through the trip home, the Leadership U experience was a journey of exploration and understanding about all things ASHRAE, especially the people that make-up ASHRAE, about the guidance and governance of our Society, and even self-realization. I am so honored to have been selected as one of the four participants in for the 2014 Winter Conference and to have had the opportunity to shadow Society Vice President Dan Pettway, who also serves as chair of the Publishing and Education Council, and is a member of the Planning Committee, the Finance Committee and Technical Committee 7.2. As you can tell, Dan is a busy man, but that did not stop him from being a gracious and enthusiastic mentor. I can't thank him enough for sharing his week and expertise with me; along with his lovely wife and right-hand, Terri Pettway, for allowing me to be their third wheel!

The conference kicked-off on Friday evening with a Leadership U introductory meeting and from there it was non-stop until I headed to the airport on Wednesday afternoon, regretting that it was already over. Each day I was surprised by the depth and breadth of work completed at the conference while the impressive technical program ran simultaneously, giving me every opportunity to fully experience all sides of ASHRAE to the fullest. And each experience had me saying "that was the coolest thing I've seen/done in ASHRAE"... only to be superseded by the next event. From the host committee reception on Friday evening to the Member's night out on Tuesday, the camaraderie, mutual respect and continuous show of appreciation for each contributors' hard work was transparent and emanated a feeling of friendship that extended even to us "new-comers" that were just there "crashing the party". To be honest, I've been involved in ASHRAE for a decade now and have served at the chapter level and even at the Regional level; but my current role is coming to a close and while I'm familiar with many things ASHRAE, this opportunity gave me a chance to take all of the "dots" that I'm familiar with and connect them – a chance to make sense of how all of the work on the chapter level and at Chapter Regional Conferences filters up to Society and is brought forward to the Member's Council, Executive Committee and the Board of Directors. Likewise, an opportunity for me to evaluate what direction I would like to take as my career in ASHRAE continues. Again, I say career in ASHRAE because a "career" is more than just a job, it is a vocation, a calling and a livelihood – all of which I attribute to ASHRAE as it shapes me professionally and also shapes my profession. In addition to testifying to the personal and professional relationships fostered by ASHRAE, Leadership U also allowed me to see the time invested in each program and by each committee that composes our organization and drives our grassroots efforts. To say that the level of work that I witnessed was impressive would be an understatement. However, most impressive of ALL, was to witness the efficiency and precision with which that work was executed. I have never seen a group of professionals so fluently conduct and multi-task their way through agenda after agenda, contentious discussion after contentious discussion and meeting after meeting. And I can honestly say, I am inspired. That, in-and-of-itself, warrants the program name of "Leadership U". Thank you for this amazing opportunity!

For more information or to apply for Leadership U at the Annual Conference in Seattle this June, go to:
<https://www.ashrae.org/membership--conferences/leadership-u>



ASHRAE San Diego POKER NIGHT Round 2

When: Friday February 21st, 2014
Starts at 6:00 PM

Where: Climatec
13715 Stowe Dr
Poway, CA 92064

Can Blankemeier
do it again?!

Why: Fundraiser for ASHRAE San Diego

Entrance Fee: \$40

See Attached Rules for Additional Information

Questions? hschopplein@gmail.com





TEXAS HOLD'EM POKER NIGHT

DATE: February 21st, 2014
ADDRESS: 13715 Stowe Dr, Poway, CA 92064
TIME: PROMPTLY AT 6:00 PM arrive at 5:30 pm
CHIPS: 500-IN CHIPS
GAME: TEXAS HOLD'EM
PAYOUTS: 50% OF PROCEEDS GO TO ASHRAE.
GIFT CARD PRIZES 1st-3rd PLACE

FOOD (PIZZA) UNTIL SUPPLIES LAST. BRING YOUR OWN BEER.

THE FOLLOWING ARE GENERAL HOUSE RULES.

- NO SORE LOSERS.
- IN CASE THERE IS A MISDEAL, THAT TABLE WILL VOTE TO REDEAL OR CORRECT ERROR. MAJORITY RULES.
- NO COACHING
- NO FOLDING OUT OF TURN
- CANNOT PASS DEAL
- WHEN BETTING, MONEY IS TO STAY IN FRONT OF EACH PLAYER UNTIL BETTING IS COMPLETE FOR THAT ROUND
- ALL PLAYERS WILL BE SEATED AT RANDOM. FINAL TABLE WILL BE LAST 8 PLAYERS FROM ALL TABLES COMBINED. HOUSE RESERVES THE RIGHT TO COMBINE TABLES AT ANY TIME.

BETTING: WILL CHANGE AFTER 30 MINUTES OF PLAY. HOUSE RESERVES THE RIGHT TO CHANGE BETTING BEFORE ANY GAME STARTS TO KEEP THE GAME MOVING FORWARD.

START GAME:

The game is started with the two players to the left of the dealer posting a Small Blind and Big Blind (The values are below). Then the two pocket cards are dealt to each player. The betting begins with the player left of the Big Blind. Because the blinds are bets, not antes, players can not check in the first betting round; They must either fold, call, or raise.

SECOND ROUND:

After first round is complete, burn top card and three cards are dealt face up on the table (the top). The cards are common to all players. Betting starts with the first active player to the left of the dealer.

THIRD ROUND:

After second round is complete, burn top card and the fourth communal card is dealt face up on table (the turn). Betting starts with the first active player to the left of the dealer.

FOURTH ROUND:

After third round is complete, burn top card and the final card is dealt face up on table (the river). Betting starts with the first active player to the left of the dealer.

Players use their two pocket cards and the five communal cards to create the best five-card hand possible, with the winner receiving the pot. If two or more players have the same winning hand, the pot is equally between them.

BETTING WILL CHANGE EVERY 30 MINUTES OF PLAYING TIME. THE FOLLOWING ARE BETTING OF THE SMALL AND BIG BLIND. ALL SEQUENTIAL BETTING FOLLOWING THE SMALL AND BIG IS UNLIMITED.

SMALL BLIND	10	20	30	50	100	150	200	250	300	600	1200	2400
BIG BLIND	20	40	60	100	200	250	400	500	600	1200	2400	5000

LET'S HAVE A GOOD TOURNAMENTGOOD LUCK!!!

Our ASHRAE San Diego Members Page!

This is our page to recognize and acknowledge the events and accomplishments in the lives of our ASHRAE San Diego Chapter members.

We're always looking for an excuse to celebrate each other and give a pat on the back. If you'd like to recognize someone in the ASHRAE Community, let us know! Contact me at cferraro@randallamb.com.



<http://www.ashraesd.org/.html>

Happy February Birthday!

Bruce Johnson
David Matier
Douglas Lockwood
James Miller
James Shillady
Jeffrey Dufoe
John Lopez
John Sieger
Karla Real
Kusum Shekhliya
Larry Nelson
Matthew Chase
Matthew Severson
Milton Kodmur
Paul Stapleton
Paul Vitolo
Rami Barghout
Richard Chase
Robert Ross
Stanley Jarosin
Steven Linn
Thomas Reichert
William Ivey



Welcome New ASHRAE Members

Gino Renzo Olivari
Ross Dixon - Air Treatment Corporation
Ryan Christopher Wohlfarth - Heat Technology Products
Eduardo Reynoso - SDG&E
Joseph Kilcoyne - SC Engineers
Paul Stuart: Abbott Engineering
Khalaf Almasarweh: Atlas Heating and Air Conditioning
Jen Gagne
Kristin Webster - VaCom Technologies
John Woolsey

CONGRATULATIONS TO OUR SAN DIEGO NEW FACES OF ENGINEERING NOMINEE!



Calina Ferraro, P.E., mechanical engineer, project manager, Randall Lamb Associates, La Mesa, Calif.

Education: Bachelor of Science in mechanical engineering, McGill University, Montréal, Québec, Canada

The San Diego Chapter is very pleased to recognize our own Calina Ferraro, P.E. as one of the nominees for the New Faces of Engineering for 2014! This distinguished honor highlights young professionals who have made a notable contribution to their profession during the onset of their limitless career. Calina works for Randall Lamb Associates in La Mesa and is extremely active in ASHRAE, serving as our chapter Newsletter editor, participating in a variety of meetings, technical committees and social programs as well as attending the Society Winter Conference this January. We are extremely excited to see Calina nominated for this honor and wish her the best of luck!

- Contributed by Cindy Moreno, T&M Mechanical



During the month of April, ASHRAE San Diego will sponsor a Habitat for Humanity build! We are looking for corporate sponsorships to fund the build. We need 10 sponsors to commit to \$500 to reach our total commitment to Habitat for Humanity of \$5000. By sponsoring the build, your company will be able to send 2 representatives to help out on build day. Once we have enough sponsorships confirmed, a final date will be selected.

To commit to a sponsorship, please email Kaitlin Douglass directly at kaitlin.douglass@siemens.com with the contact information for the 2 people that will be attending.

This is going to be a very exciting event! We are helping at the Building for the Brave program in Lakeside. This is the first project of its kind in San Diego and will provide four townhomes for affordable homeownership by disabled veterans and their families. The homes will be outfitted with state of the art furnishings adapted to the special needs of the veteran. This project broke ground in March 2013 and all four homes will be completed by Summer 2014.



HVAC Design Training

March 17 – 19, 2014 --- Level I - Essentials --- Atlanta, GA and Toronto, Canada

March 20 – 21, 2014 --- Level II - Applications --- Atlanta, GA

HVAC Design: Level I – Essentials - Registration is \$1,239, \$989 (ASHRAE Member)

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$829, \$679 (ASHRAE Member)

In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

Do you know your Officers and Chairs?

Here are some fun facts you should know!



Jaime Moreno

Position: Grassroots Government Activities Chair

Company: Rahn Industries

1. If he could be any animal he would be a bald eagle, because they can fly.
2. His favorite weekend get-away is to Arizona, to see his daughter.
3. His favorite sport is baseball. When he was a kid he wanted to be a baseball player and his favorite movie is the Sandlot.
4. His dream car is a Corvette.
5. His favorite pizza is a pepperoni pizza from Pizza Port.

Cameron Peck

Position: Research Promotion

Company: Trane

1. One thing you may be surprised to know about him is that he loves to work on cars.
2. His favorite dive bar is the Aero Club, where you may find him drinking his favorite drink, bourbon on the rocks.
3. On his next vacation he would like to go to Trinidad and Tobago.
4. Hiking through Patagonia is on his bucket list.
5. He is originally from Chico and went to Cal Poly SLO.



Steve Valladolid

Position: Board of Governors

Company: LSW Engineers

1. Favorite quote is "many a truth is said in jest".
2. His favorite restaurant is Flemmings. Maybe he orders his favorite food, pork chops.
3. Going to the Monaco Grand Prix is on his bucket list.
4. His celebrity crush is Monica Bellucci.
5. His favorite TV show is the "Dick Van Dyke Show" and his favorite movie is The Naked Island.



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new online forum**



<https://www.ashraexchange.org>



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Summit and Exposition

Green California – It's Happening Now
April 8-9, 2014 | Sacramento Convention Center | Sacramento, CA

BACnet Web Services Updates and Call for Participation in a Virtual Plugfest

NEW YORK – The BACnet committee has approved an update to BACnet/web services (WS) to better support more sophisticated needs such as smart grid and energy management.

ANSI/ASHRAE Standard 135-2012, BACnet – A Data Communication Protocol for Building Automation and Control Networks, allows building equipment and systems manufactured by different companies to work together. It is the only open, consensus-developed standard in the building controls industry.

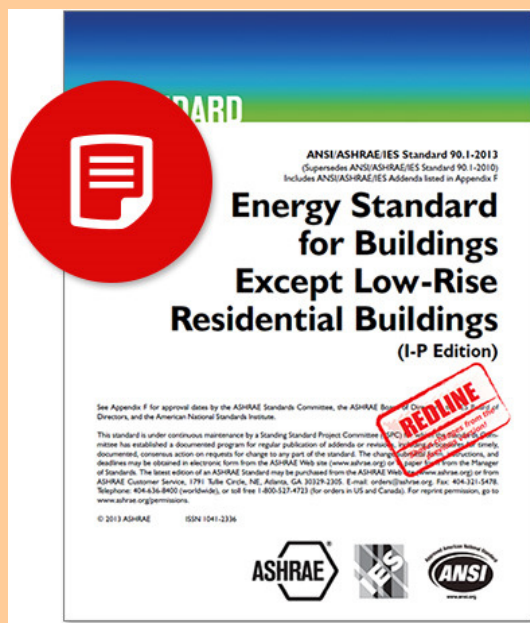
The BACnet committee announced this week at ASHRAE's 2014 Winter Conference that addendum 135 am is slated for public review in the first quarter of 2014. In order to drive a deeper review, the committee is conducting a "virtual plugfest" for prototype implementations.

An open source BACnet/WS server reference implementation has been developed to seed the plugfest, it can be used as a test subject for client development and a basis for server prototypes, according to Carl Neilson, chair of the Standard 135 committee. The committee is asking for implementations of both client and server prototypes.

The virtual plugfest will be conducted online and is expected to begin mid-March and run through early April.

Hot Products from ASHRAE

Latest Edition of Standard 90.1 Now Available as a Redline



**Priced from \$135 (Members Pay \$115)
Available now in I-P or SI units**

Use the redline to instantly identify updates in the 2013 revision of Standard 90.1.

This expanded document compares the 2013 edition to 2010, ensuring you know exactly what changes have been made from one edition to the next.

It's an indispensable reference for engineers and other professionals involved in the design of buildings and building systems. Select the redline upgrade in print or digital format to receive **two** documents; the clean, active version of the standard and the redline version.

About Standard 90.1-2013: Energy Standard for Buildings Except Low-Rise Residential Buildings (ANSI approved; IES co-sponsored)

provides the minimum requirements for energy-efficient design of most buildings. Learn more

About Redlines: A redline document is a quick, easy way to compare all the changes between the active standard and the previous version. Redlines allow users to instantly identify additions, deletions, and other formatting and content changes. Learn more

Visit www.ashrae.org/bookstore to learn more about this and other outstanding ASHRAE publications!

EMPLOYMENT OPPORTUNITY

T-Squared Professional Engineers, Inc

Mechanical Designer / Engineer – Project Manager

Overview:

Immediate opening for a Mechanical Designer/Engineer with Project Management experience to join our team. The successful candidate will be professional, self-motivated, energetic and enthusiastic with excellent communication and inter-personal skills. Previous consulting engineering firm experience required and project management experience preferred.

Responsibilities and Technical Capabilities:

Lead a team in HVAC systems design for commercial, educational, health-care and military facilities.

- Strong technical skills to produce accurate and timely HVAC and plumbing systems designs
- Experience in design documentation and Project Management
- Develop layouts and detailed schematics for HVAC systems
- Experience in packaged equipment and central plants
- Piping and hydronic designs
- Energy Conservation Reports
- Cost Estimates
- Title – 24 calculations
- Knowledge of California Energy Standards – Code Requirements
- LEED design experience with focus on energy efficiency and sustainability
- LEED documentation and coordination
- Provide drafting support using AutoCAD 2010 MEP to drafting staff

Qualifications / Requirements:

- Bachelor's degree in Mechanical Engineering (or related industry experience)
- Minimum 5 years' experience in Mechanical design
- Project Management Experience from Schematic Design through Construction Administration
- EIT or PE certificates a plus
- LEED – AP a plus
- Team-player: Ability to manage a project and/or take direction from a Project Manager
- Proficiency with MS Office (Excel, Word) and AutoCAD
- Strong verbal and writing communication skills

Ranked as one of the top engineering companies in San Diego by the San Diego Business Journal, and the only MEP firm to make the list, T-Squared Professional Engineers, Inc. is a 20 year-old, privately held, industry-leading consulting engineering firm specializing in HVAC, Electrical, and Plumbing Systems Design as well as Photo-Voltaic Systems Design and Building Commissioning. To learn more, visit our website at www.tsqeng.com.

We offer a stimulating work environment with competitive salary & benefits and opportunities for advancement. We are proud to offer a variety of benefits including medical, dental, and vision insurance, 401K, and many more. Furthermore, we are an Equal Opportunity employer and will consider all applications accordingly.

Submit Resume and Salary Requirements to jobs@tsqeng.com

EMPLOYMENT OPPORTUNITY

LSW Engineers, California, Inc.

MECHANICAL/PLUMBING ENGINEER

LSW Engineers is a mechanical, electrical and plumbing (MEP) consulting engineering firm with over a 60 year history and nearly a 40 year presence in San Diego, CA. Our portfolio includes: airports, restaurants, universities, K-12 schools, hospitals, municipalities, prisons, and military bases. We are distinguished as a forward-thinking firm.

We are seeking a highly motivated mechanical and plumbing design engineer for our San Diego office for full time employment. Responsibilities include: mechanical and plumbing design, AutoCAD drafting, Revit modeling and energy load calculations on a wide variety of projects.

We offer competitive salaries and great benefits, including medical, 401K, vision, dental and a profit sharing plan.

Requirements:

- Bachelor's degree in mechanical engineering.
- Good verbal and writing communication skills.
- EIT and PE desirable, but not mandatory
- LEED-AP, desirable, but not mandatory

Proficiency in the following software programs is highly desirable.

- AutoCAD 2007 and higher
- Revit experience is desirable
- EnergyPro
- Microsoft Word
- Microsoft Excel

Please submit resume and salary requirements to

Terry O'Neil
Office Manager
toneil@lswsd.com