



# ASHRAE San Diego Newsletter



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

REGION X

Volume 1, Issue 9

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

November 2009

## Message from Our President

**Walter Houle**

Electronic Control Systems, Inc.

Another month has come and gone too quickly, and again it has been a busy one for the Chapter. Our October 15th dinner meeting on infectious disease risk control in healthcare facilities was both interesting and informative. Many of you expressed an interest in holding dinner meetings, and we will continue hosting them based on your support.

Looking forward, our November 13th meeting will be a plant tour at the University of San Diego featuring central air and water side HVAC systems. Our Holiday Party Committee has been working hard on planning a new and exciting event for us. It will take place on Tuesday December 8th at the downtown Hard Rock Café. Please help support ASHRAE by attending. You won't want to miss this event.

Thank you for your continuing support of our Chapter.

*Walter Houle*

## In Memory of Bob Miller

I first met Bob at ASHRAE meetings. Not long after, he became Chapter President. I believe I was Secretary and chair of the newly organized Energy Management Committee when he was President. He was truly a great leader and mentor for me. In addition, since I had come to San Diego about 4 years before, I was trying to do some controls work at Rohr, where he was the Assistant Manager of the Facilities Engineering Dep't. I couldn't get to second base, because they had their plans worked out and an outside controls contractor didn't fit into those plans. He was truly a company man and not influenced by his personal relationships with anyone. I saw that stand continue throughout the years. When I became Chapter President, Bob, unlike many past Presidents, was enthusiastic about being on the Education committee and working in the Science Fair, working with high school kids doing engineering projects. He served on that committee for many years. Bob moved through his professional life with a very deliberate focus and concern for not hurting anyone, but, instead, helping any he felt needed help, whether that was fellow employee, outside vendor or sub-contractor, or fellow ASHRAE member. In addition, he really shined as a "peace maker," due to his deliberate and soft-spoken demeanor.

**-Verle Williams**

Bob Miller was quite involved with Greater San Diego Science Fair activities for a number of years. The ASDF board sought his input more than once regarding our reward program, especially at the junior high level, as to how and where we could do the most good, and he always responded with good advice. Bob was a credit to both ASHRAE and the engineering community, as well as one of the most personable men I have known, and he will be missed by everyone who had the pleasure of knowing him.

**-Jim McKinley**

## INSIDE THIS ISSUE

- 1 President's Message & In Memory of Bob Miller
- 2 YEA News & YEA Leadership Conference Recap
- 3 Calendar of Events & Seminars
- 4 November Mtg Info & Officers/Committee Members
- 5 Letter from Editor
- 6 HVAC Crossword Puzzle
- 7 Holiday Party Information

## YEA News

### Dan Noto, PE

YEA Chairman  
United Mechanical Consultants, Inc.

The San Diego ASHRAE YEA group had another Happy Hour on Thursday, October 29th. The event was held at Gringo's Cantina in Pacific Beach. The event was only lightly attended as several RSVPs had to back out at the last moment. A group of nearly 10 members still showed up and enjoyed margaritas, quesadillas, and chips and salsa.

For future notice, please send me an e-mail at [d.noto@united-mechanical.com](mailto:d.noto@united-mechanical.com) or change your RSVP response if you are not planning on attending the event. The discrepancy between RSVPs and actual attendees is not going for the possibility of holding future events at these locations.

The next ASHRAE YEA event is tentatively scheduled for the 3rd week of November. More specific details will be coming shortly.

Lastly, there will NOT be a December Happy Hour because of the Holiday Party and other events going on around town.

Thanks and see you at the next event!!

For more information about upcoming meetings and events go the San Diego ASHRAE website:

<http://www.ashraesd.org>. Also,

Found on the website is employment opportunities, membership information, committee information, the San Diego chapter monthly newsletter, links to the national ASHRAE Website, and much much more!

**Daniel S. Noto, RE.**  
LEED AP  
Managing Director-San Diego

858/550.1454  
858/550.1453

7405 Charmant Dr., #2328  
San Diego CA 92122

 **unitedmechanical**  
CONSULTANTS, INC.  
the air of innovation.™

[d.noto@united-mechanical.com](mailto:d.noto@united-mechanical.com)

## YEA Leadership Conference

### Dan Noto, PE

YEA Chairman  
United Mechanical Consultants, Inc.

Over the 40 different chapters were represented from over 20 different states and Canada. Over the two days, the attendees participated in ice-breaking and networking activities. Additionally, there was considerable time spent on developing personality profiles for ourselves as well as for each other. The conference culminated in the attendees breaking up into teams of 6 or 7 members each. Each team was tasked with creating a certain program that could be presented at either the society, regional, or chapter levels. After working on these programs for several hours on Saturday afternoon, the teams presented our programs on Sunday morning.

The program that I was a part of was tasked with developing a "technical chapter program". The program we developed was an "interactive technical tour". The idea would be to perform a technical tour, but actually have the ASHRAE members get "hands-on" at the particular site. There are clearly logistics that would have to be worked out, but it's a concept that I think the San Diego Chapter could implement in the future.

I fully recommend other YEA members attend this conference in the future. It was a very educational and enjoyable experience overall.

Please contact me at [d.noto@united-mechanical.com](mailto:d.noto@united-mechanical.com) if you have more specific questions regarding the conference or any other YEA questions you may have.

 **Trident Technologies**

7425 Mission Valley Rd., Suite 207  
San Diego, CA 92108-4409  
tel: 619.688.9600 or 800.326.4010  
fax: 619.688.9700

Water Treatment Solutions for Industry

  
**MECHANICAL SALES CO.**

215 S. Hwy 101, Ste. 107, Solana Beach, CA 92075  
Tel: 858.481.6176 Fax: 858.259.7796  
[sales@tmmechanical.com](mailto:sales@tmmechanical.com)  
[www.tmmechanical.com](http://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

## NEXT MEETING

**DATE & TIME** NOVEMBER 10, 2009 AT 11:30 AM  
**PLACE** USD CENTRAL PLANT  
**SPEAKER** SITE TOUR  
**DESCRIPTION** CENTRAL PLANT SITE TOUR AND LUNCH AT THE BEAUTIFUL USD CAMPUS

## NOVEMBER DATES TO REMEMBER

**THRU 11/30:** DINOSAURS ALIVE 3D, SAN DIEGO NATURAL HISTORY MUSEUM, \$7-\$13  
**THRU 02/28:** DARWIN: EVOLUTION/REVOLUTION, SAN DIEGO NATURAL HISTORY MUSEUM, \$10-\$16  
**11/06-11/15:** SAN DIEGO BEER WEEK, [HTTP://SDBW.ORG/](http://sdbw.org/)  
**11/10:** USD CENTRAL PLANT SITE TOUR  
**11/11:** VETERANS DAY  
**11/11-11/13:** GREENBUILD 2009, PHOENIX ARIZONA  
**11/14:** 1ST ANNUAL WINE TASTING & ANALYSIS FUNDRAISER, SAN DIEGO ARCHAEOLOGICAL CENTER, \$35/PERSON OR \$60/COUPLE  
**11/14-11/15:** FAMILY DAY AT THE MARITIME MUSEUM, \$14 ADULTS, CHILDREN FREE  
**11/15:** SAN DIEGO CHARGERS VS PHILADELPHIA EAGLES, QUALCOMM, \$54 AND UP  
**11/18-11/22:** SAN DIEGO BAY WINE & FOOD FESTIVAL  
**11/21:** HALL OF FAME INDUCTION & GALA, SAN DIEGO AIR & SPACE MUSEUM, \$275-\$375  
**11/21:** LA JOLLA ANTIQUE BEER FEST, \$90/PERSON  
**11/24-01/15:** ANNUAL LEGO TRAIN EXHIBIT, SAN DIEGO MODEL RAILROAD MUSEUM, \$7  
**11/26:** THANKSGIVING  
**11/27:** CHARGERS 50TH ANNIVERSARY BLOCK PARTY, \$35  
**11/29:** SAN DIEGO CHARGERS VS KANSAS CITY CHIEFS, QUALCOMM, \$54 AND UP

## SEMINARS & CLASSES

FOR MORE INFORMATION SEE [WWW.ENERGYCENTER.ORG](http://WWW.ENERGYCENTER.ORG)

### 2009 ISPE ANNUAL MEETING (VARIOUS TOPICS)

FOR MORE INFORMATION SEE [WWW.ISPE.ORG](http://WWW.ISPE.ORG)

DATE: 11/8/09 THRU 11/11/09

LOCATION: MANCHESTER GRAND HYATT  
 1 MARKET PLACE  
 SAN DIEGO, CA 92101

### DEMAND RESPONSE - CALCULATING LOAD REDUCTION

DATE: THURSDAY, 11/12/09, 8:00 AM - 3:00 PM

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

### NEW ENERGY STANDARDS FOR HVAC CHANGE-OUTS

DATE: WEDNESDAY, 11/18/09 9:00 AM - 12:00 PM

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

### NEW T-24 STANDARDS FOR LIGHTING, WINDOWS & VENTILATION

DATE: THURSDAY, 11/19/09, 9:00 AM - 12:00 PM

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

## SAVE THE DATE

**12/08/09:** ASHRAE HOLIDAY PARTY

**01/23/10-01/27/10:** ASHRAE WINTER CONFERENCE, ORLANDO FLORIDA

November 2009						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 <b>CHARGERS</b> Daylight Savings Ends	2	6 ASHRAE BOG MTG	4	5	6  San Diego Beer Week Begins	7 
8	9	10  LOCAL ASHRAE MTG	11 Veteran's Day & Greenbuild Begins	12 Greenbuild	13 Greenbuild	14  Family Day at the Maritime Museum
15 <b>CHARGERS</b> San Diego Beer Week Ends	16	17	18  San Diego Bay Wine & Food Festival Begins	19	20	21 La Jolla Antique Beer Fest
22 San Diego Bay Wine & Food Festival Ends	23	24	25	26  Thanksgiving	27 <b>CHARGERS</b> Chargers Block Party	28
29 <b>CHARGERS</b>	30					



## University of San Diego Plant Tour



Come take lunch at the beautiful campus of University of San Diego and check out their campus central plant and eat great Mexican food.

Some of you may note that this meeting was originally planned to be a tour of the UCSD cogen plant. Unfortunately, they had some unexpected shut downs and could not host us. Thankfully, the kind staff at USD was able to host a tour for us.

DATE: Tuesday, November 10, 2009  
11:30-12:00: Sign In  
12:00-12:10: Introductions & Announcements  
12:10-1:00: Lunch and Tour

Where: University of San Diego - Facilities Management Bldg @ NW corner of campus. Click here for directions

Park at the West Marion Way Parking structure. You will need to obtain a free 1 day pass from the kiosk at the west campus entry on Marian Way and let the attendant know that you are there for the ASHRAE tour.

A tram will pick up at the east end of the parking structure at 11:30, 11:45 and noon. There is no parking at the central plant.

Please RSVP by calling or emailing your reservation to:  
Heather O'Donnell  
Phone (858) 391-7014  
Email: [Heathero@climatec.com](mailto:Heathero@climatec.com)

\$15.00 - Students and Retired  
\$30.00 - Member with RSVP by Nov 9th at noon  
\$35.00 - At the Door  
\$40.00 - Not an ASHRAE Member/Associate/Affiliate  
\*Pay by Paypal using the links on [www.ashraesd.org](http://www.ashraesd.org).

**Air  
Treatment  
Corporation**

HVAC Manufacturers' Representative

**Hugh Egan**  
Sales Engineer  
[hegan@airtreatment.com](mailto:hegan@airtreatment.com)

Ph: (858) 586-6336  
Cell: (619) 889-7525  
Fax: (858) 586-2167

10650 Scripps Ranch Blvd.  
Suite 212 • San Diego, CA 92131  
[www.airtreatment.com](http://www.airtreatment.com)



**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](mailto:RandallPratt@CALIFILTER.com)



**BENDER & DEAN  
ENGINEERING**  
Consulting Engineers

438 Camino Del Rio South  
Suite 217  
San Diego, CA 92108-3547

Ph: 619-704-1900  
858-427-1690  
Fax: 858-427-1608

## 2010 OFFICERS & CHAIRS

### OFFICERS:

**President:** Walter Houle  
ECS Controls Inc  
12520 Kirkham Court Suite 7  
Poway, CA 92064  
[whoule@ecscontrols.com](mailto:whoule@ecscontrols.com)

**President-Elect:** Mark Richards,  
P.E.  
Emery Mechanical Engineering  
6653 Cowles Mountain Blvd  
San Diego, CA 92119  
(619) 464-5348  
[mark@emeng.com](mailto:mark@emeng.com)

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

**Secretary:** Daniel Noto, P.E.  
United Mechanical Consultants, Inc.  
7405 Charmont Drive, Unit 2328  
San Diego, CA 92122  
(858) 550-1454  
[d.noto@united-mechanical.com](mailto:d.noto@united-mechanical.com)

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

### BOARD OF GOVERNORS:

Mark Bender, P.E. Past-President  
Rafael Guillen  
Gerald Hartford, P.E.  
Heather Schopplein  
Hugh Egan  
Mark Silke  
Eric Glatzl, P.E.

### COMMITTEE CHAIRS:

**Attendance/Reception:**  
Heather O'Donnell

**Auditing:**  
C.J. (Jim) McKinley, P.E.

**Finance:**  
Rebecca Haehn

**Historian:**  
Terry Erickson

**Honors and Awards:**  
Mark Bender

**Membership:**  
Eric Glatzl, P.E.

**Mentoring:**  
Bill Regan

**Website:**  
Bruce Brown

**Newsletter:**  
Heather Schopplein

**Nominating Committee:**  
Mike Burgess, P.E.

**PAOE:**  
Mark Richards, P.E.

**Programs/CTTC:**  
Walter Houle

**Publicity/Welcoming:**  
Cindy Hyatt

**Refrigeration:**  
George Misleh

**Research Promotion:**  
Hugh Egan

**Special Events:**  
Mark Silke

**Student Activities:**  
Gerald Hartford, P.E. (UCSD)  
Rafael Guillen (SDSU)

**TEGA:**  
Walter Houle

ASHRAE San Diego  
Foundation

### BOARD OF DIRECTORS

Mike Frazier  
Jim McKinley  
Bill Reagan  
Rick Springle  
Mark Bender, PE



# ASHRAE Inside

Building Sustainability from the Inside Out

Orlando, FL

2010 Winter Conference

January 23 - 27

**SAN DIEGO'S BEST CULTURAL VALUE!**

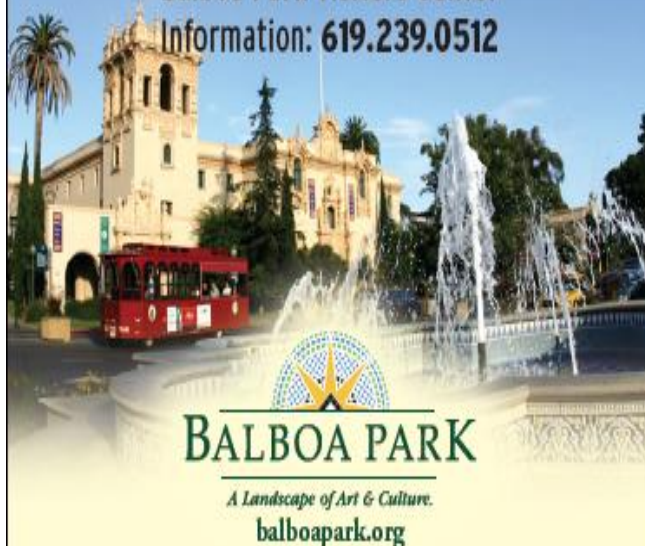
## Passport to Balboa Park

13 cultural attractions for one low price

Zoo/Passport Combo available

Balboa Park Visitors Center

Information: 619.239.0512



**BALBOA PARK**

A Landscape of Art & Culture.

[balboapark.org](http://balboapark.org)

## Letter from the Editor

Heather Schopplein  
E&A Engineering/EMSI

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

Get a free month post when you contribute to the newsletter. If you would like to contribute, please email your submission by the 24th of the month. Submissions will be reviewed by the board prior posting. Email any questions or comments to [h\\_schopplein@hotmail.com](mailto:h_schopplein@hotmail.com).

Or you can advertise as follows:

Business Card 6 Issues; \$80

Business Card 12 Issues; \$140

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

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

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

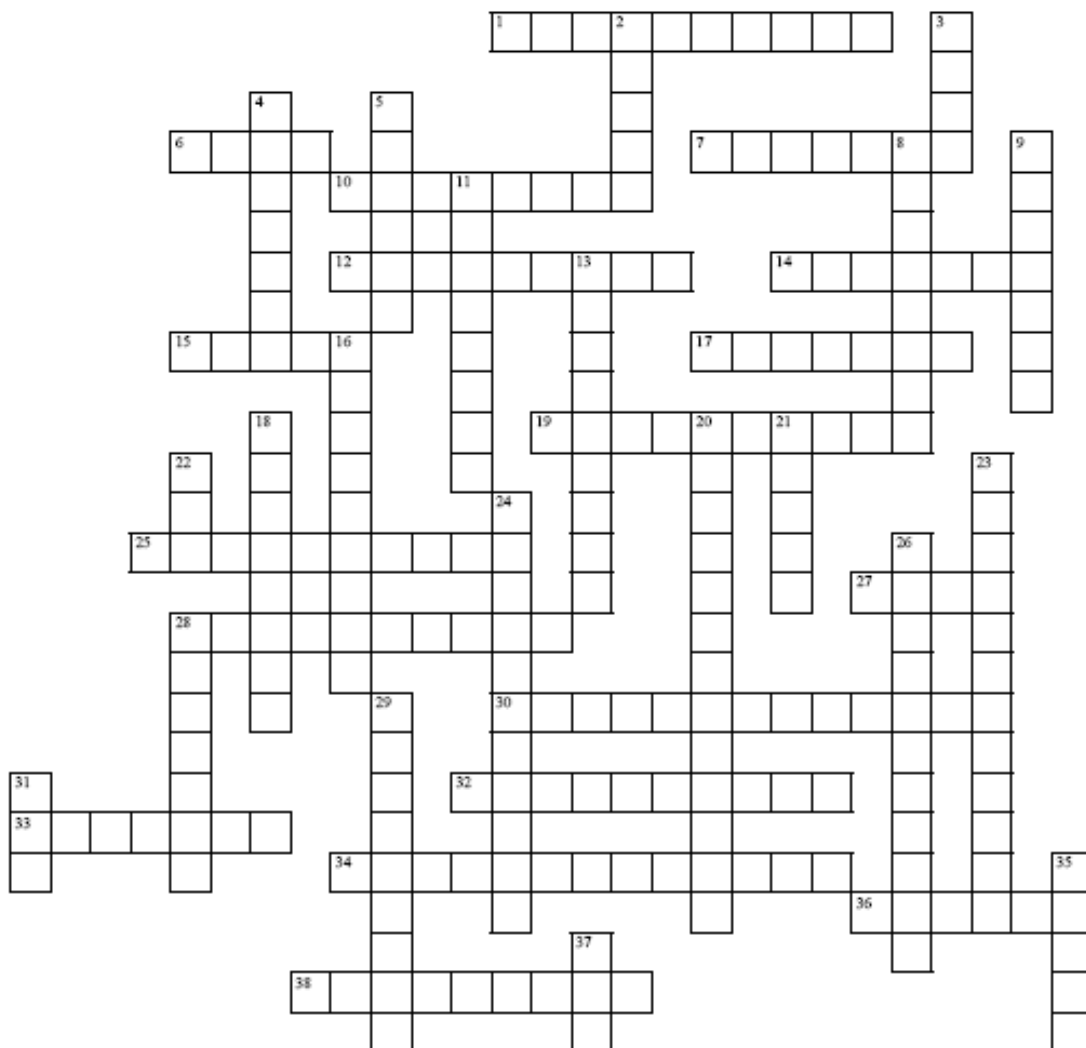
Full Page (9.8" tall x 7.25" wide) Ad 3 Issues; \$250

### Submissions:

Due by 24th of the month for inclusion in the newsletter issued on the 1<sup>st</sup>.

Email submissions to: [h\\_schopplein@hotmail.com](mailto:h_schopplein@hotmail.com) please include "ASHRAE SD Newsletter Ad" in the subject line.

# Know your HVAC&R



## ACROSS

- 1 "\_\_\_\_\_ " Our Future by Rebuilding our Past
- 6 Filter Ratings
- 7 ASHRAE president, Gordon \_\_\_\_\_
- 10 Dry heat load
- 12 The World's only LEED Certified marina
- 14 Location of the upcoming Winter Conference
- 15 Part of CFM
- 17 Type of heat transfer
- 19 Scroll or Screw
- 25 Temperature
- 27 It can be silver, gold or platinum
- 28 Heat transfer via circulation
- 30 Chart
- 32 Removal of air & gases from boiler feed water
- 33 HW Sources
- 34 It can improve performance
- 36 Wet heat load
- 38 It can't hold any more water

## DOWN

- 2 \_\_\_\_\_ 24
- 3 Measurement used for cooling load
- 4 According to ASHRAE, it's 83 in San Diego
- 5 Sheet Metal Air Chamber
- 8 Commonly Wye or Basket
- 9 Not Flanged
- 11 Equipment lists
- 13 Forefather of fluid dynamics
- 16 Outside of the split
- 18 Water-based systems
- 20 The "R" in ASHRAE
- 21 \_\_\_\_\_-system air conditioner
- 22 ASHRAE group under 35
- 23 Holiday Party location
- 24 Pressure (at sea level it is 14.7lbs/sq. in)
- 26 Most HVAC Pumps
- 28 Modular, Process & Medical to name a few
- 29 Resistance of a liquid to shear forces
- 31 How we measure heating load
- 35 A vapor
- 37 Rating for energy efficiency

**T&M**

MECHANICAL SALES CO.

Cindy Hyatt

Manufacturers' Representatives

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

Tel: 858.481.6176 • Fax: 858.259.7796

Cell: 858.254.7458

cindyh@tmmechanical.com

Crossword by Cindy Hyatt, T&M Mechanical



# 2009 Annual ASHRAE Holiday Party

As 2009 comes to a close, please join us as we celebrate the holidays and raise money for ASHRAE Research Promotion! Festivities will include casino games, a buffet dinner, raffle prizes, networking, and Open Bar\*



WHEN: Tuesday, December 8<sup>th</sup>

5:30 – 10:00 pm \*(open bar 6-8pm)

WHERE: Hard Rock Café

801 4<sup>th</sup> Avenue, Downtown San Diego

WHY: All proceeds will be donated to ASHRAE  
Research Promotion



We will also be booking a block of discounted hotel rooms close to the venue. Pricing & details will be posted soon. . . .



## SPONSORSHIP OPPORTUNITIES

High-Roller Bar Sponsor: \$3,000 - includes dinner/reserved table for 8 and recognition

Printed on gifts given to all attendees

Black Chip Sponsor: \$1,500 - includes dinner/reserved table for six

Blue Chip Sponsor: \$1,000 – includes dinner/reserved table for four

Red Chip Sponsor: \$500 – includes dinner for two

ALL SPONSORS WILL HAVE THEIR COMPANY NAME/LOGO PROMINENTLY DISPLAYED AT THE EVENT AND WILL BE RECOGNIZED ON THE ASHRAE SAN DIEGO CHAPTER WEBSITE.



Tickets are available for purchase until the day of the event. See schedule for advanced discount pricing:

RSVP by Nov 18<sup>th</sup> - \$85 per person

RSVP by after Nov. 18<sup>th</sup> - \$100 per person

Purchase ticket at the door - \$125 per person

→ → RSVP to Hugh Egan at [hegan@airtreatment.com](mailto:hegan@airtreatment.com) ← ←

ONCE AGAIN, ASHRAE SAN DIEGO WILL BE SPONSORING THE TOYS 4 TOTS PROGRAM. BRING AN UNWRAPPED NEW TOY TO THE PARTY TO RECEIVE AN EXTRA RAFFLE TICKET!

Questions? Contact Heather Schopplein @ 760-233-5005 or Cindy Hyatt @ 858-254-7458.

