



San Jose Chapter

Dear San Jose ASHRAE Members and Friends,

Although the weather can't seem to decide, fall is upon us! Thank you to everyone who attended the September Social; we really kicked the year off right! It was truly an amazing time as we packed Testarossa Winery, networked with new friends, and honored our chapter's more accomplished members. Special thank you to RF MacDonald, Nibco, Sigler, and Air Treatment for all your generous support at this event and throughout the years, it wouldn't have been the same without it. I apologize to those who could not register for this sold out event, but don't worry, we have a busy next few months ahead!

We're back at the Biltmore again for our monthly technical meetings. Stop by and help us welcome Don Betts on Oct 9th, as he presents on Optimizing Design and Control of Hot Water Systems, specifically condensing boilers. As a Product Sales Manager with over 30 years of experience, this presentation is sure to heat up!

Do you like brunch? Help support our Women in ASHRAE committee as they take over Lisa's Tea Treasures in Los Altos Sunday, Oct 13th! Join them as they raise their tea cups and promote the addition and retention of women in the built environment by encouraging opportunities for professional development and leadership.

Please keep an eye out for our YEA Sharks game, November technical meeting, and especially our first annual product show! It's going to be a packed first half of November, just in time to have plenty to be thankful for!

Hope to see you all very soon!

Richard Lam

San Jose ASHRAE Chapter President

INSIDE THIS ISSUE:

October Meeting 2-3

EVENTS

Thank You Girls' Day

Volunteers 4

Nor Cal Facilities Expo..... 5

WIA Brunch & Tea..... 6

Bay Area Science Festival .. 7

YEA Sharks Game 8

ASHRAE Product Show 9

TRANE Training Schedule 10

ASHRAE COMMITTEES

Membership Promotion.... 11-12

Research Promotion 13

CTTC 14

GGAC 15-16

Student Activities 17

Jobs.ASHRAE.org 18

Student Winter Conference

Application19-22

Thank You



OCTOBER TECHNICAL MEETING AND MEMBERSHIP PROMOTION NIGHT

CONDENSING BOILERS: OPTIMIZING DESIGN AND CONTROL OF HOT WATER SYSTEMS

SPEAKER: DON BETTS, CLEAVER BROOKS

We welcome you to join us for our technical meeting at the Hotel Biltmore in Santa Clara for an evening of sharing knowledge, fun, and networking.

Date: October 9th, 2019

Location: Hotel Biltmore
2151 Laurelwood Rd, Santa Clara, CA 95054

Time:

Check-in and Social:	5:30PM
Dinner	6:30PM - 8:15PM
YEA Mixer	8:30PM – Last Call

Cost:

Early bird Registration fee:	\$ 50/- (by Midnight Oct 2 nd)
Late Reg/Walk-ins/Non-Members:	\$ 60

RSVP: <https://sjashrae.org>

Speaker:

DON BETTS

PRODUCT SALES MANAGER, CLEAVER BROOKS

Don Betts is a Product Sales Manager at Cleaver Brooks located in Milwaukee, WI. Don has over 30 years of experience in engineering and sales involving heat transfer equipment. Don's product experience includes incineration, waste heat recovery, hot water and steam systems. In addition, Don has management experience as the general manager of a hot water, ASME Code, and heat exchanger manufacturing facility. Don is from the Milwaukee area and graduated from Marquette University with a B.S. in Mechanical Engineering.

Presentation Summary

This presentation will cover optimization of system design and control strategies for hydronic systems with condensing boilers. The presentation begins by covering the science of condensing, and discussing how condensing boilers are able to achieve higher efficiencies by capturing latent heat from the boiler flue gas. Next, the presentation will address different methods for controlling and staging boilers, and discuss how to optimize controls for condensing boiler systems given the inverse efficiency characteristics of condensing boilers. Finally, we will compare primary variable and primary/secondary systems, and discuss the pros and cons of these two system designs when utilizing condensing boilers.

Heartfelt THANKS TO OUR VOLUNTEERS!



Thank you to our volunteers Chalini Ekanayake, Cinthya Carrillo, Michelle Espinoza, & Vanessa O'Conner! Together ASHRAE helped host a successful Girl's Day Event with Museum of Tech!



JOIN US AT THE ONLY COMBINED FACILITIES, MRO AND GREEN BUILDING EVENT IN THE BAY AREA

NORTHERN CALIFORNIA
FACILITIES™
EXPO
OCTOBER 9 & 10, 2019
Santa Clara Convention Center, Santa Clara, CA



Wednesday, October 9, 2019	
EXHIBIT HALL HOURS:	10:00am - 3:00pm
CONFERENCE HOURS:	8:50am - 3:10pm
Thursday, October 10, 2019	
EXHIBIT HALL HOURS:	10:00am - 2:00pm
CONFERENCE HOURS:	8:50am - 3:10pm

Why attend Northern California Facilities Expo?

Admission to the Exhibit Floor and Conferences is FREE -

You get informational and educational benefits similar to those of national shows, but without the attendance fees – and without incurring air fare and hotel expenses. The Santa Clara Convention Center is a venue that is convenient and user-friendly for attendees.

Managing Green Buildings -

The Managing Green Buildings portion of Facilities Expo will help you be up to speed on products and services that can help save energy and water; meet energy and environmental regulations; apply toward LEED, Living Building Challenge or ENERGY STAR certification; qualify your facility for utility rebates, and more. Along with the designated Managing Green Buildings section of the show floor, at least half of the educational seminars in the conference focus on energy-efficiency and sustainability.

Meet with Exhibitors -

Our show floor will have exhibits in a wide variety of categories including energy management, HVAC, predictive maintenance, electrical systems, water conservation, lighting, software, safety and many more – staffed by experts who can answer your technical questions. From the floor to the roof – our exhibitors have you covered.

Educational Conference Sessions -

Topics include energy-efficient lighting controls, building continuity after earthquakes, new Title 24 energy requirements, electrical safety, solar PV systems and energy storage, water reuse, facility video surveillance, electric vehicle charging, improving your audiovisual presentations, fall protection, compressed air systems, efficiency as a service, a facilities tour of the Santa Clara Convention Center, and case histories about Kaiser Permanente San Jose Medical Center – an impressive green hospital, and the City of San Jose – one of the first cities in the U.S. to receive LEED for Cities Certification.

Visit www.FacilitiesExpo.com for full event details and to REGISTER!

For exhibiting information contact Lisa Nagle at 800-827-8009 x4402 or LNagle@facilitiesexpo.com
or George Runckel at 800-827-8009 x4405 or GRunckel@facilitiesexpo.com





WOMEN IN ASHRAE

*Sunday Tea
and Brunch*

□ ————— □

**LOS ALTOS
LISA'S TEA TREASURES**

13 October 2019 | Sunday
\$30 Early Bird / Before September 12
\$40 After September 12





Bay Area **Science Festival!**

HELP VOLUNTEER WITH ASHRAE
SATURDAY NOVEMBER 2nd

@

ORACLE PARK IN SAN FRANCISCO

**VOLUNTEERS WILL VOLUNTEER IN SHIFTS BETWEEN 11:AM – 4:30PM
IN TIME SLOTS THAT WORK BEST FOR YOU! JOINT EVENT WITH THE
GOLDEN GATE & SAN JOSE ASHRAE CHAPTERS!**

FREE ADMISSION FOR FAMILIES TO ENJOY!

*Contact Cinthya Carrillo for more information
ccarrillo@westernallied.com*



ASHRAE SHARKS GAME



WHEN

THURSDAY, NOV 7TH
PUCK DROP 7:30PM
MEET UP BEFORE: 5PM

WHERE

SAP CENTER, SAN JOSE

COST

\$48 PER TICKET

QUESTIONS

EMAIL CNIXON@THERMA.COM



First Annual Product Show



San Jose ASHRAE Chapter
invites you to attend our first
product show!

- Meet industry leaders
- Develop relationships with product experts
- Physically touch and evaluate the products
- Access the most current product information
- Get new ideas and inspirations

Free Admission! Free Food!
Door Prizes!

SAVE THE DATE

Tuesday
November 12, 2019

Product Show 10 am - 3 pm
Presentations 11 am, 1 pm

Bay Area Local 104
Training Center

2340 Lundy Place
San Jose, CA 95131

www.sjashrae.org



PACIFIC COAST TRANE TRAINING SCHEDULE At-a-Glance July through December 2019

Your One-Stop Training Center for Trane Equipment, CITY MULTI® VRF,
Trane A/C Clinic, HVAC Fundamentals, Controls and EPA Section 608 Certification

- **Trane/Mitsubishi CITY MULTI® VRF in Benicia** (Installing Contractors) **07/09/19 — 07/11/19** (Day)
- **Schematics and Wiring Diagrams - Part 1** (Owners-Operators and Service Contractors) **07/26/19** (Day)
- **Pneumatics Controls and Maintenance** (Owners-Operators and Service Contractors) **07/27/19** (Saturday)
- **Trane CenTraVac Chiller Pizza Night** (Owners-Operators) **08/08/19** (Evening)
- **Trane A/C Clinic 2-Day Boot Camp** (Owners-Operators and Service Contractors) **08/22/19 — 08/23/19** (Day)
- **Schematics and Wiring Diagrams - Part 2** (Owners-Operators and Service Contractors) **08/24/19** (Saturday)
- **Trane/Mitsubishi CITY MULTI® VRF in Benicia** (Installing Contractors) **09/10/19 — 09/12/19** (Day)
- **Electricity Part 1 - Basic** (Owners-Operators and Service Contractors) **09/27/19** (Day)
- **Trane IntelliPak Rooftop Overview** (Owners-Operators and Service Contractors) **09/28/19** (Saturday)
- **NFPA 20, 25, and Fire Protection Systems** (Owners-Operators and Service Contractors) **10/19/19** (Saturday)
- **Electricity Part 2 - Troubleshooting** (Owners-Operators and Service Contractors) **10/25/19** (Day)
- **Trane Air & Water-Cooled Rotary Chillers** (Owners-Operators and Service Contractors) **10/26/19** (Saturday)
- **Trane/Mitsubishi CITY MULTI® VRF in Benicia** (Installing Contractors) **11/12/19 — 11/14/19** (Day)
- **Refrigerants and Record-Keeping Section 608 Pizza Night** (All Audiences) **11/14/19** (Evening)
- **Indoor Air Quality** (Owners-Operators and Service Contractors) **11/15/19** (Day)
- **Fundamentals of Hydronics** (Owners-Operators and Service Contractors) **11/16/19** (Saturday)
- **EPA 608 Exam and Certification** (Owners-Operators and Service Contractors) **12/13/19** (Day)
- **HVAC Systems and Service** (Owners-Operators and Service Contractors) **12/14/19** (Saturday)

For registration info contact Fawn Davis, Training Director at 408-481-3655
Register online at www.PacificCoastTrane.com/training

Pacific Coast Trane Training Center • 310 Soquel Way • Sunnyvale, CA 94085



Vanessa Lasseson

Membership Promotion Co Chairs



Gabriel Perez

San Jose would like to welcome
the following members:

Associate

❖ Steve Flores

"We look forward to seeing you at the next meeting!"

Please consider membership advancement! Why should a member advance from Associate to Full Member status?

- Local Chapter Recognition
- Service Society, Chapter, or Regional Committees
- Qualify for ASHRAE Fellow & other Society awards

To become a Full Member, complete the three steps below.

Have all (3) qualifications below?
Apply for advancement!

Engineering Degree (4+ years)
PE License
Work Experience (3+ years)

1 - Check if you qualify.

See the next page on
Attaining Full
Membership

2 - Update your online ASHRAE Profile.

Go to www.ASHRAE.org.
Select "My ASHRAE"
Select "Review/Update
Profile"

3 - Notify / email ASHRAE.

Email membership@ashrae.org
Let them know you have an
updated bio and wish to be
considered for a grade
advancement.

ATTAINING FULL MEMBERSHIP

Twelve years may not be as long as you think!

How many years have you been working in this industry? _____(A)

How many years did you attend a technical school, college, or university? _____(B)

Is (B) at least 2 years? Then enter that number here: _____(C)

Did you graduate from an accredited college or university? If yes, multiply (C) by 0.5 and enter here: _____(D)

Have you attained professional registration?
If yes, enter 3 here: _____(E)

Now....add (A) + (C) + (D) + (E) = _____(F)

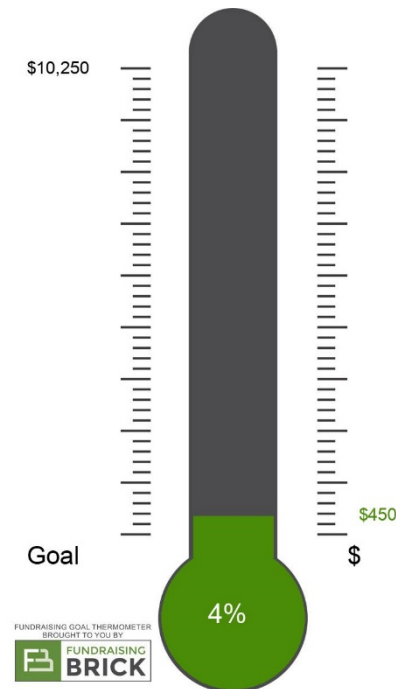
Is (F) at least 12? Then you qualify for full membership!

Update your member bio online today www.ashrae.org



Rob Potter

Research
Promotion
Chair



What is Research Promotion?

The RP Campaign is an annual fundraising campaign benefiting the funding of numerous ASHRAE Programs. These programs include:

ASHRAE Research ASHRAE Scholarships for undergraduate students ASHRAE Learning Institute (ALI) development of new courses & materials Graduate Research Projects (Grants-in-Aid) Young Engineers in ASHRAE (YEA) Leadership Training Permanently endowed support to all of the above programs

The RP Campaign is overseen by the RP Committee, a standing ASHRAE Committee. The Committee is made up of 14 Regional Vice Chairs (RVC), 1 Consultant (past RVC), 3 Vice Chairs (past Consultant), and Chair (past Vice Chair). Staff support includes a 3-member team based at ASHRAE Headquarters.

The RP Campaign raises over \$2.2 million a year from over 6,000 donors. These donors are made up of ASHRAE Members, industry associations, and industry organizations.



David Hodson

Chapter Technology
Transfer Committee
(CTTC) Chair

What is CTTC?

The Chapter Technology Transfer Committee (CTTC) provides efficient and effective transfer of current and relevant information throughout the HVAC&R industry to and from the Chapters. CTTC develops and maintains high quality and readily available tools to enable Chapters to offer information and attractive industry-related information and programs to all segments within the HVAC&R industry

Upcoming Events



Advance your career and open new doors by earning an ASHRAE Certification

<https://www.ashrae.org/professional-development/ashrae-certification>



Vanessa Lasseon

Government Affairs
Committee (GAC)
Chair

What is GAC?

The Government Affairs Committee (GAC) is responsible for organizing ASHRAE members to educate local, state, provincial, and national government bodies and officials in areas of interest to ASHRAE members, and to promote effective cooperation between ASHRAE members and government.

ASHRAE Government Affairs

Stay informed on the latest news. Subscribe to ASHRAE's Government Affairs Update!

This bi-weekly publication features information on government affairs-related activities of interest to ASHRAE members and others interested in the built environment.

Subscribe through the link below:

<https://www.ashrae.org/government-affairs/government-affairs-updates>

Announcements



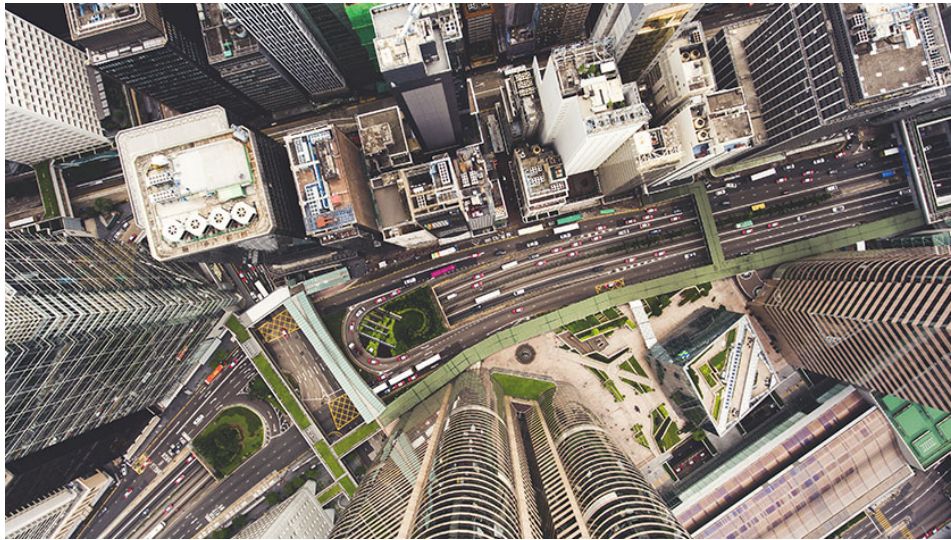
Public Comment Opportunities:

- BSR/ASHRAE Standard 127- 2012R
- 30 Day Public Review (ends March 10th)
- 45 Day Public Review (ends March 25th)



GAC Announcements:

GAC ANNOUNCEMENTS



City of San Jose – Energy and Water Building Performance Ordinance

[READ MORE](#)

The Energy and Water Building Performance Ordinance builds on existing state law (CA Assembly Bill 802). It requires commercial and multi-family buildings over 20,000 square feet to track their yearly whole building energy and water usage data with the EPA platform ENERGYSTAR Portfolio Manager® and share this data with the City. The City will publish a subset of summary data to support market transparency and recognize high-performing buildings across San José.

ASHRAE Publishes 2018 Version of Standard 90.2

[2018 – STANDARD 90.2](#)

ASHRAE has published the revised ANSI/ASHRAE/IES Standard 90.2-2018, Energy-Efficient Design of Low Rise Residential Buildings. The 2018 revision of Standard 90.2 outlines cost-effective residential building energy performance measures that are at least 50% more efficient than those defined by the 2006 International Energy Construction Code (IECC). said Theresa Weston, Ph.D., chair of the Standard 90.2 committee. "This update to the standard offers better alignment between this standard's requirements and marketplace product availability as well as some revisions to improve the document's clarity and internal consistency."

DOE Proposes Changing Process to Set Energy Standards

[WASHINGTON, D.C.](#) — The U.S. Department of Energy (DOE) has issued a notice of proposed rulemaking (NPR) and request for comment to "update and modernize" DOE's current methodology for the establishment of new or revised energy conservation standards and test procedures for both consumer products and commercial/industrial equipment.

New ASHRAE Zero Energy Standard Could Bring Industry into Agreement

[READ MORE](#)

An upcoming ASHRAE standard could help the industry come to a consensus of what makes a building zero energy. Standard Project Committee 228P, Standard Method of Evaluating Zero Energy Building Performance, will provide a consensus document on how to measure where a building is compared to the zero energy goal, said Keith Emerson, P.E., Life Member ASHRAE, and proposed chair of SPC 228P.



Cinthya Carrillo

Student
Activities Co
Chairs



Sargon Ishaya

Announcements



Interested in Outreach? ASHRAE can provide tools to help!

- ASHRAE and HVAC & R related presentations. Ideal for colleges, universities, & high schools
- Hands-on STEM activities. Ideal for K-8 classes.



Looking for an Internship or Full-Time Position?

- Post your resumes on <https://jobs.ashrae.org/>
- Look for the latest job listings!
- Available for Students and Professionals!

Looking to hire?

- Post your job openings on <https://jobs.ashrae.org/>
- Find qualified individuals looking to hire!