



President's Message

by Jai Jayaraj, 2016-2017 Chapter President



Dear Members,

Just like that, a year has passed, ending my time serving as the president of this amazing chapter.

First, I wanted to take this opportunity to thank all our members for showing their continuous support and being a part of the San Jose Chapter. It has been a great year.

I usually refrain from making any political statements, especially in a public forum. However, it is time that we have to stand for what is right. The recent decision to withdraw the US from the Paris Climate agreement was disheartening. Taking care of the planet starts from home, and as the local ASHRAE chapter, we are ever committed to energy efficient and sustainable building designs. I would like to take a pledge that every HVAC solution that I provide will be based on energy conscious designs and I encourage all our members, especially the young engineers, to keep 'energy efficiency and sustainability' as one of the top priorities in your building designs.

It is now, more than ever, that we need our Research Promotion funds to encourage and facilitate energy efficient projects in our state. We thank all our members for their generous support and would like to encourage everyone to donate whatever possible amount you can to our Research Promotion fund.

This year has been a roller-coaster with transitioning to a new job, trying to balance ASHRAE with a very demanding travel schedule in my current role, and purchasing a new home. It would have been impossible for me to be in this role if it wasn't for the support of my committee chairs and BOG. I would like to thank each and every one of them from the bottom of my heart for putting together an amazing program throughout the year. I would also like to thank Xylem - Bell and Gossett, for giving me the flexibility and time to volunteer at the San Jose ASHRAE Chapter.

Finally, I would like to convey my gratitude and thank you for giving me the opportunity to serve as the chapter president, San Jose ASHRAE, it has been an honor.

All the best wishes to Ms. Lauren Wilson, president for 2017-2018!!

I would like to end my last president's message with a heartfelt prayer that originated from my country, India.

Om Lokah Samathah Sukhino Bhavanthu

"May all the beings, in all the worlds, be happy"

Thank you, Jai Jayaraj

IN THIS ISSUE

May Refrigeration Tour



Past President's Night



Come join us at The Silicon Valley Capital Club in San Jose on June 15, 2017.

Table of Contents

Message from President	PG 1
New Officer Installation Dinner	PG 2
SJ ASHRAE Scholarship	PG 4
ASHRAE Certifications	PG 5
May Refrigeration Tour	PG 7
Membership Promotion	PG 8
Job Openings	PG 9



NEW OFFICER INSTALLATION DINNER (PAST PRESIDENTS NIGHT)

On behalf of the San Jose ASHRAE chapter, we welcome all to join us at the beautiful Silicon Valley Capital Club in Downtown San Jose for an evening with friends, fun, and networking. We will be honoring our Past Presidents and installing our new officers.

Date: **Thursday June 15th, 2017**

Location: **Silicon Valley Capital Club**
50 W. San Fernando, San Jose, CA 95113 (17th floor)

Time:

Check-in and Social:	5:30PM – 6:30PM
Dinner/Installation Ceremony/Awards	6:30PM - 8:30PM
Meeting Adjourned	8:45PM

Cost:

Early bird Registration fee:	\$ 80/- (by midnight June 8th)
Late Reg./Walk-ins/Non-Members:	\$ 90/-
Past President	Free

Registration includes 1 drink ticket. There is a cash only bar for additional drinks.

Spouses, Guest, & Non-members are welcome.

We look forward to seeing you there!

RSVP: <https://sanjoseashrae.wildapricot.org/>

SPONSORSHIPS

SOCIAL EVENT SPONSOR: \$500

Company banner at the event, name logo recognition on the table and bar, 1 dinner & drink ticket, recognition in chapter webpage, and Guidepost newsletter

TABLE SPONSOR: \$250

Name logo recognition on the table and bar, recognition in chapter webpage, and Guidepost newsletter

BAR SPONSOR: \$150

Name logo recognition on the bar, recognition in chapter webpage, and Guidepost newsletter

SJ ASHRAE Scholarship

San Jose ASHRAE seeks to motivate students and prospective students to pursue an engineering or technology career in the HVAC&R field. The Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R. This year San Jose ASHRAE was able to provide \$5,000 worth of scholarships. The winners of scholarships below will be honored at The New Officers Installation Dinner and we hope to see them there to introduce them to the senior section. A special thanks to all the applicants for taking the time to participate.

\$3,000 Scholarship - Tyler Pullen, Stanford University

\$2,000 Scholarship - Daniel Pfeiffer, San Jose State University

Honorable Mention:

Dominic Grillo, San Jose State University

Clayton Hoagland, San Jose State University

Hannah Johnson, San Jose State University

Claudia Mendez, Cal Poly, SLO

Hardeep Singh, San Jose State University



ASHRAE Certifications

The Benefits of an ASHRAE Certification

SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 30 national, state and municipal entities.

DISTINGUISH YOURSELF

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

LET ASHRAE PROMOTE YOUR ACHIEVEMENT

Certificants and their employers are listed on the website and in ASHRAE *Insights*.



5 Easy Steps to Earn and Maintain an ASHRAE Certification

1. Read the Candidate Guidebook

Visit www.ashrae.org/certification and download the guidebook for the program in which you are interested.

2. Complete the Application

Complete the online application at www.ashrae.org/certification. Membership in ASHRAE is not a requirement for certification.

3. Schedule an Examination

BCxP, BEAP, BEMP, HBDDP, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

4. Review Available Resources

The Candidate Guidebook for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45¹ Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

¹BCxP requires 50 PDHs.

Schedule an exam at one of over 300 testing centers worldwide TODAY!

To learn more or apply, please go to www.ashrae.org/certification

ASHRAE Certification

More than 2,500 professionals certified in six key built-environment fields.

Are You Ready to Join Them?



Validation. Pride. Recognition.

"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."

Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC



ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in six key, built-environment fields.

Recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Building Energy Assessment Professional (BEAP)



The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to audit, assess and analyze residential, commercial and industrial building energy use and develop and implement recommendations.

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program, as is its BEMP certification. Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use. Two separate Workbooks, As Designed and In Operation, are part of the BuildingEQ program. Submitting both of these Workbooks can earn an As Designed and In Operation building rating. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the BuildingEQ Certified Provider logo with descriptions of their services.

Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only those certified as BEMPs, and Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

Building Commissioning Professional (BCxP)



The BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

High-Performance Building Design Professional (HBDDP)



The HBDDP certification, an ANSI accredited certification program, validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to incorporate standards, guidelines and regulatory codes as well as unique healthcare facility requirements and design principles in HVAC system design.

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

Value of Earning Your ASHRAE Certification

In a recent "Value of Certification" survey, this is what ASHRAE-certified professionals had to say:

- ASHRAE Certification validates my level of specialized knowledge and ability (80%).
- ASHRAE Certification helps differentiate me from my peers (82%).
- In my field, ASHRAE Certification has provided me with greater professional recognition (73%).

ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

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

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – – – Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

Basics of High-Performance Building Design
Wednesday, February 8, 2017 – 1:00 p.m. to 4:00 p.m.

Designing Toward Net-Zero Energy Commercial Buildings
Tuesday, February 14, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE Guideline 0: The Commissioning Process
Tuesday, February 21, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process & ASHRAE Standard 202
Monday, February 27, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016
Thursday, March 9, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process in New and Existing Buildings
Part I: Monday, March 13, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Wednesday, March 15, 2017 – 1:00 p.m. to 4:00 p.m.

Design of Affordable & Efficient Ground Source Heat Pump Systems
Wednesday, March 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Envelope/Lighting
Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: HVAC/Mechanical
Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Appendix G
Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Fundamentals
Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Basic Principles, Loads and Equipment
Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs
Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

Advanced High-Performance Building Design
Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016
Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems
Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Dallas • Doha • Hartford • Toronto

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing 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 \$854 (\$699 ASHRAE Member)

HVAC Design: Level II – Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

May Refrigeration Tour

On May 10th 2017, San Jose ASHRAE held our Annual Refrigeration Tour at Western Digital – Great Oaks Campus Central Plant. Special thanks to Rick Ibarra for a very informative Refrigeration Tour and Presentation.



MEMBERSHIP PROMOTION

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

Current Job Opening

ACIES Engineering

ACIES Engineering is seeking a Mechanical Engineer/Designer who assists project engineers with all aspects of the project from proposal to final engineered design.

Duties include:

- Site surveys
- Title 24 calculations
- Ductwork design and layouts
- Load calculations
- Control diagram designs
- Product specifications
- Plumbing Design
- Preparation of design drawings
- Respond to construction administration items
- Conduct quality control checks of construction documents
- Coordinate with Architects, Structural, Civil and Electrical Engineers.

Special Requirements:

- Working knowledge of AutoCAD and MS Windows operating system required.
- Revit experience a plus!
- Knowledge/experience with California construction and city codes preferred.
- Field construction experience preferred.

Email resumes to recruitment@acies.net

Pacific Coast Trane Service and Controls

Pacific Coast Trane Service and Controls is the San Francisco district office representing the Trane Company is currently seeking a **Service Dispatcher** to join our team in **Sunnyvale, CA**.

Summary of responsibilities: Serves as the primary interface between the customer and the centers of excellence within the Service Acquisitions & Fulfillment groups. Dispatches Field Service Engineers to install, service, start, maintain and repair commercial HVAC units and systems. Compiles and prepares weekly payroll report every Monday and performs monthly job closing.

Job Requirements: Associate's degree or equivalent from two-year College or technical school or equivalent experience or at least 3 years of related experience. Excellent organizational, communication, customer service & people skills required. Computer skills required include computer-aided dispatch, paging & fax software, scanner, email, and proprietary main frame access. Flexible to work overtime/weekends as required.

Pacific Coast Trane is an Equal Opportunity Employer.

Email resumes to jcregala@trane.com

Conservation Mechanical Systems, Inc.

Inside Sales Engineer position available with a growing HVAC Manufacturer's Representative Firm in Hercules.

You will be working with a dedicated team of professionals gaining product knowledge of energy and water saving HVAC equipment for the Mechanical Engineering and Construction Industry. Job duties include performing equipment selection, estimating (plan & spec/design build), and sales support.

Job Requirements: desire to learn, detail/technical oriented, self-motivated and enthusiastic. 2 year degree or BA/BS in Engineering a plus.

Salary based on experience.

Job Type: Full-time

Contact Information:

Submit resume to HR@conservationmechsys.com